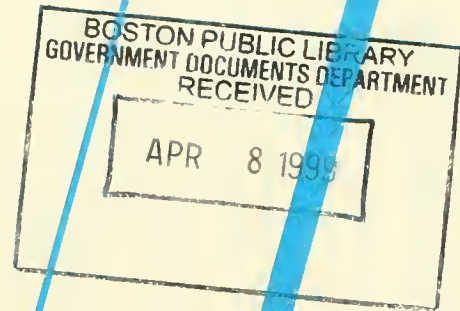


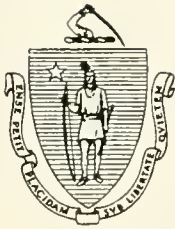


1996 Annual Report

Vital Statistics of Massachusetts

Massachusetts Department of Public Health
Public Document No. 1

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6457
.1



The Commonwealth of Massachusetts
Executive Office of Health and Human Services
Department of Public Health
250 Washington Street, Boston, MA 02108-4619

ARGEO PAUL CELLUCCI
Governor

WILLIAM D. O'LEARY
Secretary

HOWARD K. KOH, MD, MPH
Commissioner

August 1998

**To the Honorable Senate and
House of Representatives:**

We have the honor to submit as required by Chapter 111, Section 2 of the General Laws, the one hundred fifty-fifth annual report on statistics of births, deaths, marriages and divorces in Massachusetts for calendar year 1996.

Since 1964, the ANNUAL REPORT OF VITAL STATISTICS has been published by the Department of Public Health and is intended to assist in the development of policy and programmatic initiatives within the Department, as well as to provide State officials and agencies, and the general public, with valuable statistical information.

Sincerely,

A handwritten signature in cursive script that reads "Howard Koh".

Howard K. Koh, MD, MPH
Commissioner

**ANNUAL REPORT
VITAL STATISTICS OF MASSACHUSETTS
PUBLIC DOCUMENT #1
1996**

**THE COMMONWEALTH OF MASSACHUSETTS
DEPARTMENT OF PUBLIC HEALTH**

**ARGEO PAUL CELLUCCI, GOVERNOR
WILLIAM D. O'LEARY, SECRETARY OF HEALTH AND HUMAN SERVICES
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AUGUST 1998

Publication of this document approved by Philmore Anderson III, State Purchasing Agent

ACKNOWLEDGEMENTS

This publication of the 1996 ANNUAL REPORT OF VITAL STATISTICS is the result of the combined efforts of all data providers, including the 351 city and town clerks, hospital personnel, physicians, funeral directors, probate courts, clinics, and Department of Public Health personnel. We gratefully acknowledge the assistance provided by all data providers, without whose efforts there would be no vital statistics.

Department of Public Health staff most significantly involved in the production of the 1996 ANNUAL REPORT OF VITAL STATISTICS include:

Bruce Cohen, Abigail R. Averbach and Zi Zhang, Bureau of Health Statistics, Research and Evaluation: assistance and technical data from Advance Data: Births 1996 and Advance Data: Deaths 1996;

Robert Danley, Bureau of Health Statistics, Research and Evaluation: population statistics;

Michael Healey, Division of Data Processing: data file management and vital events series printouts;

Howard H. Wong, Bureau of Health Statistics, Research and Evaluation: computer graphics programming;

Karin Barrett, Data Quality Assurance Coordinator, and Charlene Zion, Information Officer, Registry of Vital Records and Statistics: coordination of the hospital query program for birth certificate data, specialized data programming, and assistance in developing specialized table production;

Phyllis Zeuli, Assistant Registrar for Statistics: supervision of data collection, coding and editing, with technical assistance from Maureen McKean (Statistics Unit supervisor) and Robert Coffin (Chief Nosologist).

The joint efforts of all the staff of the Registry of Vital Records and Statistics are necessary to produce the data contained in this publication. Special acknowledgement is made to the following Registry supervisors:

Alan Goldin, Director of Automation, who is responsible for the installation and supervision of the Electronic Birth Certificate system (EBC) and all computer-based systems in the Registry office;

Pedro Fidalgo, Operations Unit Supervisor, who is responsible for all printing and mailing of forms;

Phyllis Rotman, Registration Unit Supervisor, who is responsible for coordination with cities and towns to produce the data in a timely fashion;

The 1996 ANNUAL REPORT OF VITAL STATISTICS has been compiled and produced under the general supervision and direction of:

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Bureau of Health Statistics, Research and Evaluation

Elaine B. Trudeau, Registrar of Vital Records and Statistics
Registry of Vital Records and Statistics

Frances A. Vitagliano, Assistant Registrar
Editor

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World Wide Web: <http://www.magnet.state.ma.us/dph/>

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INTRODUCTION

The ANNUAL REPORT OF VITAL STATISTICS (Public Document No. 1) has been continuously published since 1842. This is the 33rd edition produced by the Department of Public Health. This report, required under the provisions of Chapter 111, section 2, of the Massachusetts General Laws, tabulates data on Massachusetts births, fetal deaths, deaths, marriages, divorces, and population for calendar year 1996. Approximately 2,000 copies of the report are distributed to federal, state, and local governmental agencies, private and public health planners and researchers, students, and members of the general public. The report provides its users with an overview of the health status of the Massachusetts population.

Vital statistics data may be tabulated either in terms of resident data or occurrence data. Resident data include all events which occur to residents of the Commonwealth, wherever the events occur. Occurrence data include all those events which occur within the state, including those which occur to out-of-state residents. There is an interstate exchange of copies of birth, death, and fetal death records among the fifty states, the District of Columbia, Puerto Rico, the Virgin Islands, Guam, and all Canadian provinces. These records are exchanged for statistical purposes only, for events which occur in states other than where the individual resides. This exchange allows each of the states and provinces to track the births and deaths of their residents. The majority of the data presented in this report for births and deaths is based on resident data. Marriage and divorce data, however, only reflect events which occurred within the Commonwealth.

REGISTRATION

The first government-operated system of vital events registration anywhere in the world began in the Commonwealth of Massachusetts in 1639 under colonial administration. Prior to that time, in countries with a vital registration system such as England, the responsibility for the registration of vital events had been placed on church officials. The Massachusetts system mandated the registration of vital events by the clerks of the communities. In 1842, the Massachusetts legislature established the first statewide coordination for the registration of these events by requiring that copies of the events registered in the local cities and town be sent to the Secretary of State. The first year of collection was designated for 1841. The collection of data and the production of the ANNUAL REPORT OF VITAL STATISTICS has continued since then. With the exception of the administrative location of the State Registry, the actual mechanics of the system have changed remarkably little over the years.

With limited exceptions, most vital records in Massachusetts are open public records. For open birth and death records, there is a triple registration process in Massachusetts. The event is first recorded in the city or town where the event occurred. The clerk of that community is then required to forward a certified copy of the record to both the community where the person resided at the time of the event and to the State Registry. Certified copies of the records may be issued from local or state records. If the record is a restricted record, such as those of out-of-wedlock births, the registration occurs only in the community where the event occurred and in the state office.

In addition to receiving a legal copy of each birth record from the city or town in which the birth occurred, the State Registry also receives a confidential copy of the birth record directly from the hospital or birthing center where the birth occurred. This copy includes confidential medical information in addition to the legal information. It is this copy of the record which is processed to produce the statistical information on births contained in this report.

Since 1986, the State Registry has developed a program of direct electronic transmission of birth records from hospitals. The system used in Massachusetts is called Electronic Birth Certificate (EBC). Almost 98 percent of all birth records are now received through this method. EBC has contributed to reducing processing time at both the hospital and the State Registry, while the system's built-in edits increase the quality of the data.

Anyone wishing to be married in the Commonwealth may receive a marriage license from any of the 351 cities or towns in the state, regardless of residence or where the marriage is to take place in the Commonwealth. The community issuing the license is required to send an attested copy of the marriage record to the State Registry.

The process for creating death certificates is the most complex of all vital records. Complete and accurate death records are dependent upon the following individuals: 1.) Certifier, who not only initiates the death registration process but also determines the cause of death as well as the place, time, and date of death; 2.) Funeral Director, who plays the role of facilitator in the death registration process and adds the personal data concerning the decedent, which are supplied by an informant; 3.) Burial Agent, who both issues the permit that allows the chosen disposition to take place and serves as the initial acceptor of the death certificate for official registration; and, 4.) City or Town Clerk, who records the death certificate, issues certified copies of same and forwards a copy of the death record to the Registry of Vital Records and Statistics and other communities as required by law.

The Registry of Vital Records and Statistics receives directly from hospitals or physicians the fetal death reports for fetuses of either twenty or more weeks gestation or weighing at least 350 grams. There are no local filings of fetal death reports.

Abstracts of divorces granted are also sent directly to the State Registry from the Registers of Probate from each county probate court.

STATISTICAL PROCESSING AND TABULATING

The records received in the State Registry are carefully examined for legal errors and inconsistencies. As part of the computerization process, errors and inconsistencies are queried and corrected. A computerized hospital query program is part of the EBC program. The Registry also has a data quality assurance program that includes on-site instruction for clerks and hospital personnel who have reporting difficulties, and training for all groups involved in the data collection process.

Annually, when registration is considered as complete as possible, statistics are aggregated for presentation in this report and in special studies, and for program monitoring and surveillance.

Anyone using statistical information for comparisons over time should be aware of inconsistencies and changing conventions for classification and coding. This is particularly important when using cause of death information. Codes used for classifying cause of death in this report are based on the Ninth Revision of the International Classification of Diseases, World Health Organization. Classification of variables such as race, nativity, and marital status may also differ over time.

It is hoped that this report will be useful to a wide range of health data users in the Commonwealth, as well as to educational planners, demographers, and historians. Questions concerning these data and requests for more detailed findings should be directed to:

**Massachusetts Department of Public Health
Bureau of Health Statistics, Research and Evaluation
250 Washington Street
Boston, Massachusetts 02108
(617) 624-5699**

VITAL EVENTS

SECTION A

VITAL EVENTS

HIGHLIGHTS

BIRTHS

- In 1996, there were 80,164 births to Massachusetts residents.
- Births decreased by 1.7% from 1995 to 1996.
- The 1996 Massachusetts birth rate per 1,000 residents was 13.0, a decrease of 2.3% from the birth rate of 13.3 in 1995.
- Massachusetts' 1996 birth rate of 13.0 per 1,000 residents was below the 1996 US rate of 14.7.
- The most births occurred in July (8.9%--7,121 births); the fewest births occurred in February (7.6%--6,096 births).

DEATHS

- In 1996, 55,187 Massachusetts residents died.
- The number of resident deaths decreased by less than 1.0% from 1995 to 1996.
- The Massachusetts crude death rate decreased from 902.4 deaths per 100,000 residents in 1995 to 895.6 in 1996. The 1996 US crude death rate of 875.4 deaths per 100,000 residents was lower than the 1995 US crude death rate of 880.0. The 1996 age-adjusted death rate in Massachusetts (439.6 per 100,000 residents) was lower than the US age-adjusted death rate (493.6).
- The most deaths in 1996 occurred in December (10.0%--5,541); the fewest occurred in June (7.3%--4,038).

FETAL DEATHS

- There were 430 reportable fetal deaths to Massachusetts residents in 1996.
- The number of reportable fetal deaths decreased by seven from 1995 to 1996, and the fetal death rate of 5.3 per 1,000 live births did not change.

INFANT DEATHS

- In 1996, 403 infant deaths (less than 1 year of age) occurred to Massachusetts residents.
- The 1996 Massachusetts infant mortality rate of 5.0 deaths per 1,000 live births was a slight decrease from the 1995 infant mortality rate of 5.1 deaths per 1,000 live births.
- The black non-Hispanic infant mortality rate increased from 11.1 in 1995 to 11.4 in 1996.
- The Massachusetts 1996 infant mortality rate of 5.0 per 1,000 live births was 30.6% below the US rate of 7.2.

MARRIAGES

- In 1996, there were 41,234 marriages in Massachusetts.
- The number of marriages in Massachusetts decreased by 0.7% from 1995 to 1996.
- The 1996 Massachusetts rate of 6.7 marriages per 1,000 population was below the US rate of 9.0.
- The most marriages occurred in June (14.0%--5,788); the fewest occurred in January (2.9%--1,193).

DIVORCES

- In 1996, 15,485 divorces were granted in Massachusetts.
- Divorces in Massachusetts decreased by 1.8% from 1995 to 1996.
- The 1996 Massachusetts divorce rate of 2.5 divorces per 1,000 population was below the US rate of 4.3.
- The largest number of divorces was finalized in July (1,474--9.5%), and the fewest in November (1,109--7.2%).

NATURAL INCREASE

- The rate of natural increase in the Massachusetts resident population decreased from 4.3 in 1995 to 4.1 in 1996.
- The 1996 US natural increase rate of 6.1 remains above that of Massachusetts.

The Vital Events section provides basic information on all vital events. In addition to the information highlighted above, this section contains summary birth and death data by city, town and county. More detailed information is contained in the sections on the individual events.

DEFINITIONS IMPORTANT FOR THIS SECTION INCLUDE:

FETAL DEATH

A fetal death is a death prior to the complete expulsion or extraction from its mother of a product of conception, irrespective of the duration of the pregnancy; the death is indicated by the fact that after such separation the fetus does not breathe or show any other evidence of life, such as the beating of the heart, pulsation of the umbilical cord, or definite movement of the voluntary muscles.

Massachusetts law requires that fetal deaths of 20 or more weeks gestation or weighing at least 350 grams be reported; therefore, the fetal deaths referred to in this report are of that gestational age or weight.

INFANT DEATH

Death of a child whose age is less than one year (365 days).

MISER

The Massachusetts Institute for Social and Economic Research. This research institute, located at the University of Massachusetts in Amherst, produces the official population estimates and projections for the Commonwealth.

NATURAL INCREASE

The difference between the number of resident live births and the number of resident deaths.

NEONATAL DEATH

Death of a child whose age is less than 28 days.

OCCURRENCE

Occurrence data reflect where the event took place without regard to residence. In Massachusetts, place will be one of 351 cities or towns.

RESIDENCE

The usual place of residence as reported by the mother (for births) or the informant (for deaths). An infant's residence is considered that of the mother. While occurrence data include only events that occurred within Massachusetts, residence data for births and deaths include those which may or may not have occurred in Massachusetts.

CRUDE RATES OF VITAL EVENTS:

BIRTH RATE	$\frac{\text{No. of Resident Live Births}}{\text{Total Resident Population}} \times 1,000$
FETAL MORTALITY RATE	$\frac{\text{Number of Resident Fetal Deaths}}{\text{Resident Live Births} + \text{Resident Fetal Deaths}} \times 1,000$
INFANT MORTALITY RATE	$\frac{\text{No. of Resident Deaths} < 1 \text{ Year}}{\text{Resident Live Births}} \times 1,000$
NEONATAL MORTALITY RATE	$\frac{\text{No. of Resident Deaths} < 28 \text{ Days}}{\text{Resident Live Births}} \times 1,000$
DEATH RATE	$\frac{\text{No. of Resident Deaths}}{\text{Total Resident Population}} \times 100,000$
MARRIAGE RATE	$\frac{\text{No. of Occurrence Marriages}}{\text{Total Resident Population}} \times 1,000$
DIVORCE RATE	$\frac{\text{No. of Occurrence Divorces}}{\text{Total Resident Population}} \times 1,000$

Table A-1
SELECTED FACTS IN VITAL STATISTICS
MASSACHUSETTS: 1996

BIRTH

Age Range of Mothers: 13-50

Age Range of Fathers: 14-73

Sets of Twins: 1,311

Sets of Triplets: 63

Sets of Quadruplets: 3

Most Births Occurred on: June 6, 1996 (309 births)

Fewest Births Occurred on: November 24, 1996 (136 births)

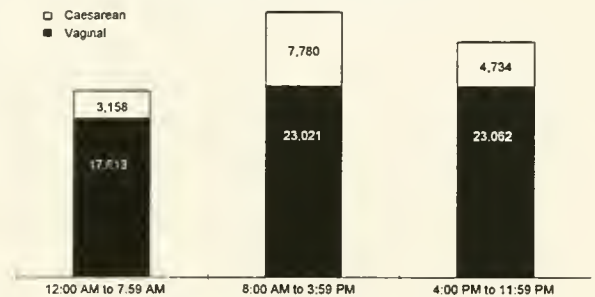
Highest # of Births at: Brigham and Women's Hospital (8,483 births)

Lowest # of Births at: The Birthplace at Wellesley (45 births)¹

Ten Most Popular Names for Babies

<i>Boys' Names</i>	<i>Number</i>	<i>Girls' Names</i>	<i>Number</i>
Michael	1,195	Emily	762
Matthew	1,162	Samantha	616
Nicholas	971	Sarah	603
Christopher	856	Jessica	511
John	822	Rachel	447
Joseph	758	Nicole	441
Andrew	754	Ashley	437
Ryan	724	Amanda	408
Daniel	714	Elizabeth	398
Joshua	607	Hannah	390

Number of Births Occurring at Specified Times of Day when Delivery Method is Known*



* Unknown delivery methods = 791
Unknown times of birth = 5

DEATH

Male Decedents 100 Years and Older: 91

Female Decedents 100 Years and Older: 522

Most Deaths Occurred on: January 3, 1996 (218)

Fewest Deaths Occurred on: June 19, 1996 (109)

Month Most Suicides Occurred: May (54)

Month Most Homicides Occurred: January (21)

Month Most Motor Vehicle Deaths Occurred: October (50)

Weekday Most Deaths Occurred: Monday (8,064)

Weekday Fewest Deaths Occurred: Sunday (7,639)

MARRIAGE

Ages of Brides: 14-94 years

Ages of Grooms: 16-93 years

Most Popular Month for Marriages: June (5,788)

Least Popular Month for Marriages: January (1,193)

Most Marriages Occurred On: September 7, 1996 (977)

Fewest Marriages Occurred On: January 15, 1996 (3)

Greatest Age Difference When Bride Older than Groom: 44 years

Greatest Age Difference When Groom Older than Bride: 52 years

DIVORCE

Length of Marriages Involved in Divorces: < 1 Year to 55 Years of Marriage

Most Common Length of Marriage Prior to Divorce: 5 years

Month Most Divorces Granted: July (1,474)

Month Fewest Divorces Granted: November (1,109)

¹ The Birthplace at Wellesley opened in December 1995.

Figure A-1

1996 Massachusetts Daily Vital Events

Each day Massachusetts residents had approximately:

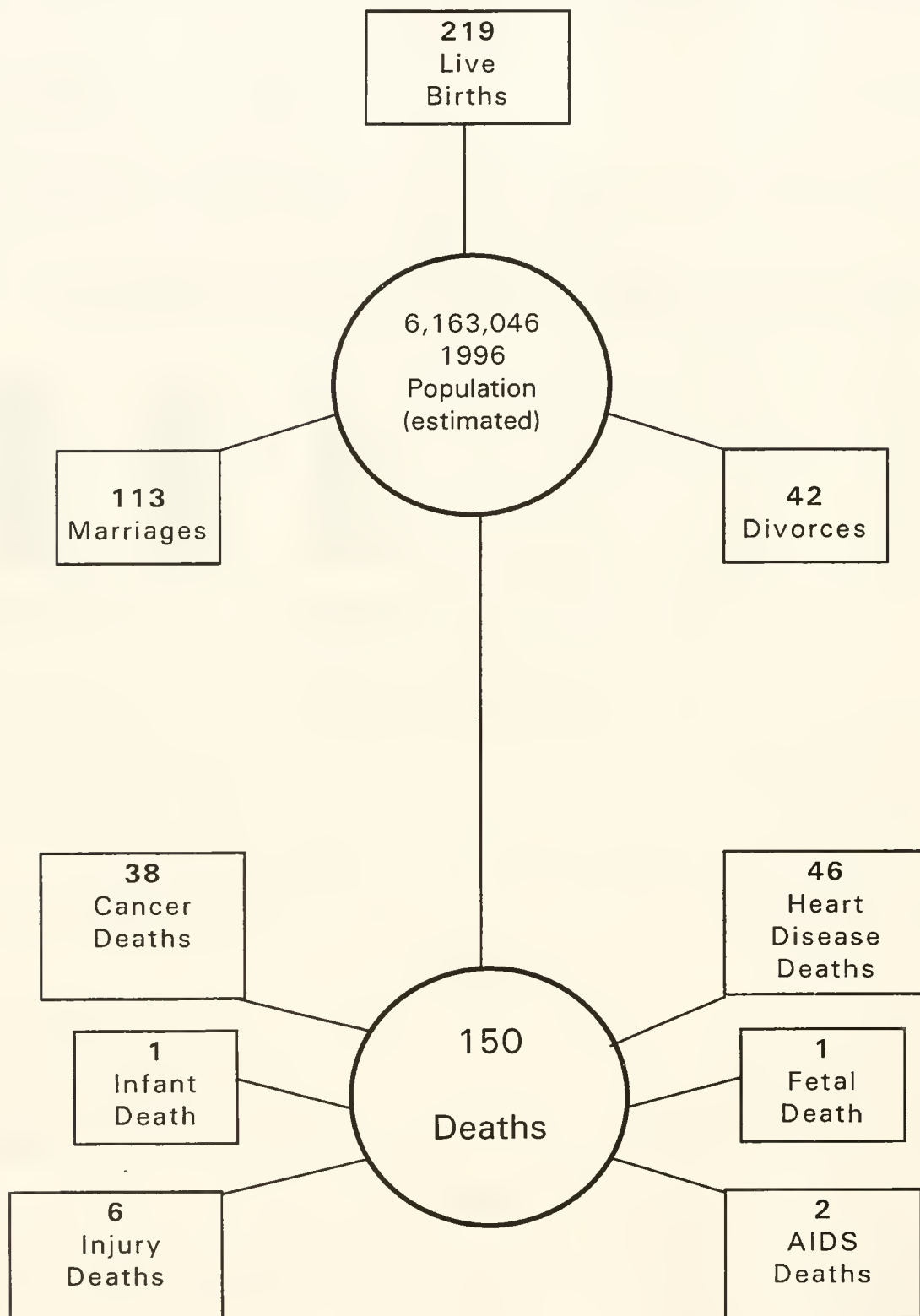


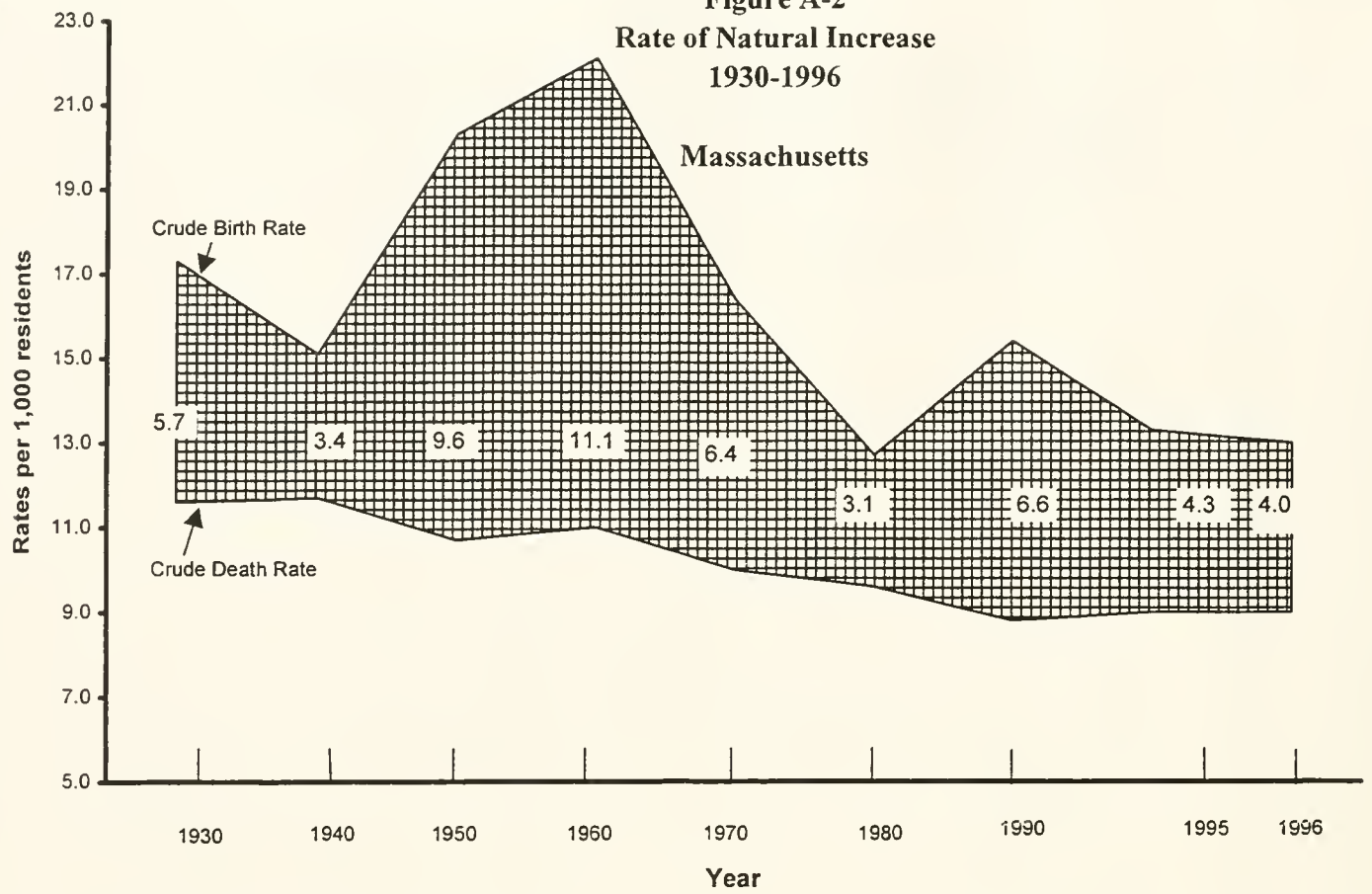
Table A-2. Number and Crude Rates of Vital Events, Massachusetts and United States: 1995-1996

Vital Event	Massachusetts				United States			
	1996	1995	% of Rate Change	1996 ¹	1995 ²	% of Rate Change		
	Number	Rate*	Number	Rate*	Number	Rate*	Number	Rate*
Births	80,164	13.0	81,562	13.3	3,891,494	14.7	3,899,589	14.8
Fetal Deaths	430	5.3	437	5.3	NA ³	NA	NA	NA
Total Deaths	55,187	895.6	55,296	902.4	2,322,265	875.4	2,312,132	880.0
Infant Deaths	403	5.0	419	5.1	28,245	7.2	29,583	7.6
Neonatal Deaths	290	3.6	298	3.6	18,326	4.7	19,155	4.9
Marriages	41,234	6.7	41,522	6.8	2,342,000	9.0	2,336,000	8.9
Divorces	15,485	2.5	15,772	2.6	1,149,000	4.3	1,169,000	4.4

*NOTES: Neonatal and infant deaths are included in total deaths; neonatal deaths are included in infant deaths; fetal deaths are excluded from total deaths. Figures for marriages and divorces reflect occurrence, not residence.
The rates for live births, marriages and divorces are per 1,000 population; rates for total deaths are per 100,000 population.
Rates for infant and neonatal deaths are per 1,000 live births.
Rates for fetal deaths are per 1,000 live births and fetal deaths.

¹ United States numbers and rates for 1996 Marriages and Divorces are provisional; all others are final. ² United States numbers and rates for 1995 Marriages and Divorces are provisional; all others are final. ³ Not Available.

Figure A-2
Rate of Natural Increase
1930-1996



United States

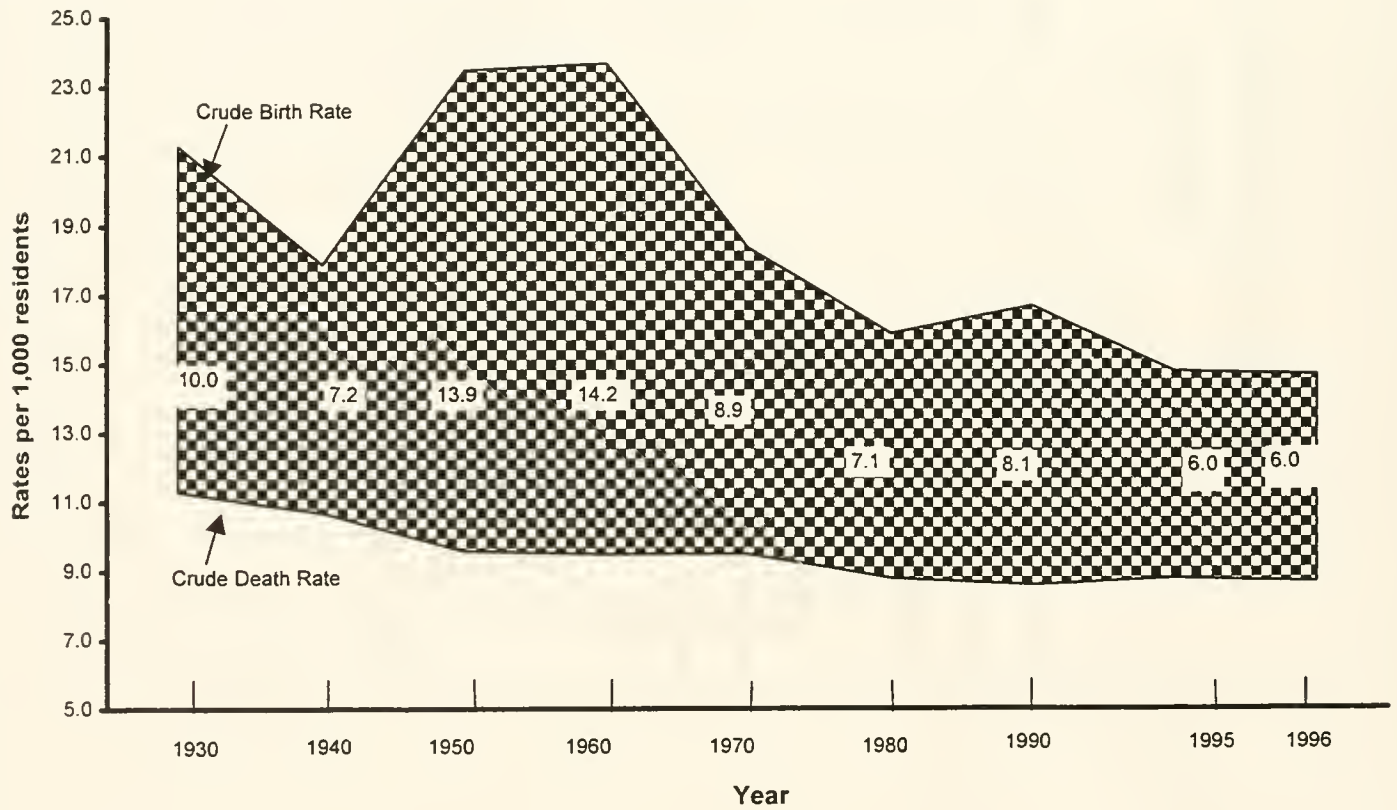


Table A-3. Massachusetts Resident Births and Deaths With Resultant Natural Increase

Massachusetts: 1900-1996

Year	Births	Deaths	Natural Increase	Rate/1,000 Residents
1900	73,386	51,156	22,230	7.9
1905	75,022	50,486	24,536	8.2
1910	86,539	54,407	32,132	9.5
1915	93,155	53,131	40,024	10.8
1920	91,859	53,632	38,227	9.9
1925	86,014	51,890	34,124	8.2
1930	73,690	49,503	24,187	5.7
1935	62,416	49,634	12,782	2.9
1940	65,369	50,698	14,671	3.4
1945	76,455	50,763	25,692	5.7
1950	95,619	50,359	45,260	9.6
1955	109,610	53,386	56,224	11.6
1960	114,018	56,560	57,458	11.2
1965	100,262	58,853	41,409	7.8
1970	93,582	56,944	36,638	6.4
1975	68,070	53,708	14,362	2.5
1980	72,591	54,934	17,657	3.1
1981	73,930	52,813	21,117	3.7
1982	75,749	52,867	22,882	4.0
1983	76,031	54,150	21,881	3.8
1984	78,197	55,189	23,008	4.0
1985	81,781	55,597	26,184	4.5
1986	82,168	55,860	26,308	4.5
1987	84,345	55,562	28,783	4.9
1988	88,047	56,407	31,640	5.4
1989	91,314	53,748	37,566	6.4
1990	92,461	53,008	39,453	6.6
1991	88,176	53,010	35,166	5.8
1992	87,202	53,804	33,398	5.5
1993	84,627	55,557	29,070	4.8
1994	83,758	54,914	28,844	4.7
1995	81,562	55,296	26,266	4.3
1996	80,164	55,187	24,977	4.0

Table A-4. Vital Events by Month, Massachusetts Residents: 1996

		Births	Fetal Deaths ¹	Deaths	Infant Deaths ²	Neonatal Deaths	Marriages	Divorces
Totals		80,164	430	55,187	403	290	41,234	15,485
January	#	6,275	30	5,485	42	34	1,193	1,421
	Rank	10	11	2	2	1	12	2
February	#	6,096	41	4,625	32	21	1,574	1,261
	Rank	12	2	4	7	8	11	8
March	#	6,520	31	4,748	30	22	1,848	1,163
	Rank	9	10	3	9	7	10	10
April	#	6,700	37	4,575	35	24	2,624	1,226
	Rank	7	7	7	4	5	8	9
May	#	7,100	40	4,398	32	25	4,237	1,269
	Rank	2	4	8	7	4	5	7
June	#	6,889	32	4,038	41	31	5,788	1,155
	Rank	5	9	12	3	2	1	11
July	#	7,121	39	4,189	35	21	3,404	1,474
	Rank	1	5	10	4	8	6	1
August	#	7,015	41	4,256	33	20	4,839	1,337
	Rank	3	2	9	6	10	4	5
September	#	6,776	42	4,144	25	18	5,642	1,367
	Rank	6	1	11	11	12	2	4
October	#	6,921	26	4,593	30	23	5,089	1,327
	Rank	4	12	6	9	6	3	6
November	#	6,225	33	4,595	25	20	2,934	1,109
	Rank	11	8	5	11	10	7	12
December	#	6,526	38	5,541	43	31	2,062	1,376
	Rank	8	6	1	1	2	9	3

¹ Fetal deaths are not included in Births or Deaths. ² Infant deaths and neonatal deaths are included in total resident deaths; neonatal deaths are included in infant deaths.

TABLE A-4A
VITAL EVENTS BY COMMUNITY
1996

COMMUNITY	POPULATION (1)	LIVE BIRTHS OCCURRENCE ; RESIDENT ;	DEATHS OCCURRENCE ; RESIDENT ;	INFANT DEATHS TOTAL ; NEONATAL (2)	MARRIAGES LICENSES ISSUED ; (3) ;	RESIDENT NATURAL INCREASE
STATE TOTAL	6,162,424	81,147 ; 80,164 ;	56,023 ; 55,187 ;	403 ; 290 ;	41,234 ; 41,234 ;	24,977
ABINGTON	14,632	1	74	5	90	145
ACTION	17,656	3	80	0	102	181
ACUSHNET	10,028	0	24	0	51	1
ADAMS	8,994	0	33	0	55	-33
AGAWAM	28,143	0	256	3	221	47
ALFORD	400	0	1	0	1	-7
AMESBURY	15,918	1	93	0	117	95
AMHERST	36,140	1	72	0	144	84
ANDOVER	27,362	0	149	1	188	156
ARLINGTON	42,361	2	320	7	305	22
ASHBURNHAM	6,006	0	13	0	19	19
ASHBY	2,951	0	9	0	10	9
ASHFIELD	1,861	0	3	0	8	8
ASHLAND	13,939	0	19	1	75	160
ATHOL	11,506	0	170	0	56	2
ATTLEBORO	40,544	780	508	5	303	240
AUBURN	15,235	0	85	2	111	7
AVON	4,609	0	5	0	38	8
AYER	7,730	0	158	0	60	64
BARNSTABLE	44,136	1,020	921	0	389	14
BARRE	4,740	0	12	0	25	13
BECKET	1,682	1	9	1	7	3
BEDFORD	11,767	1	131	0	86	134
BELCHERTOWN	12,371	2	20	0	55	85
BELLINGHAM	15,527	0	22	1	115	128
BELMONT	24,103	1	84	0	177	63
BERKLEY	5,425	0	5	0	10	63
BERLIN	2,306	0	2	0	4	15
BERNARDSTON	2,042	0	6	0	10	-9
BEVERLY	37,584	2,877	572	9	284	124
BILLERICA	35,762	0	100	1	209	347
BLACKSTONE	9,711	0	18	0	41	42

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(4) MARRIAGE FIGURES REFLECT OCCURRENCE, NOT RESIDENCE.

TABLE A-4A
VITAL EVENTS BY COMMUNITY
1996

COMMUNITY	POPULATION (1)	LIVE BIRTHS OCCURRENCE ; RESIDENT ;	DEATHS OCCURRENCE ; RESIDENT ;	INFANT DEATHS TOTAL ; NEONATAL (2) ;	MARRIAGES LICENSES ISSUED ; (3) ;	RESIDENT NATURAL INCREASE
STATE TOTAL	6,162,424	81,147 ; 80,164 ;	56,023 ; 55,187 ;	403 ; 290 ;	41,234 ; 41,234 ;	24,977
BLANDFORD	1,306	0	0	0	1	1
BOLTON	3,536	0	9	0	19	42
BOSTON	584,131	20,163	8,071	56	4,071	3,036
BOURNE	16,936	2	109	0	106	48
BOXBOROUGH	4,255	0	73	0	12	68
BOXFORD	7,352	0	1	0	24	75
BOYLSTON	3,875	0	7	0	16	19
BRAINTREE	31,588	0	5	0	24	38
BREWSTER	9,861	0	454	0	202	22
BRIDGEWATER	26,192	1	118	0	81	-42
BRIMFIELD	2,935	0	33	0	105	137
BROCKTON	91,031	2	8	0	9	18
BROOKFIELD	2,959	2,346	1,352	11	585	529
BROOKLINE	60,415	0	8	0	17	-4
BUCKLAND	1,727	4	211	0	481	172
BURLINGTON	23,271	0	6	0	8	1
CAMBRIDGE	100,565	0	484	0	200	169
CANTON	18,558	1,707	1,058	3	866	329
CARLISLE	4,093	0	146	0	145	17
CARVER	11,732	0	5	1	25	38
CHARLEMONT	1,214	1	17	1	43	51
CHARLTON	10,859	1	3	0	0	0
CHATHAM	6,589	0	44	0	58	70
CHELMSFORD	33,137	0	89	0	92	-78
CHELSEA	31,978	2	130	0	220	237
CHESHIRE	3,720	1	180	2	320	313
CHESTER	1,481	0	5	0	12	14
CHESTERFIELD	1,092	0	7	0	4	4
CHICOPEE	56,798	1	10	0	3	8
CHILMARK	648	1	647	4	339	-48
CLARKSBURG	1,653	0	1	0	18	7
CLINTON	14,218	0	113	2	99	1

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TABLE A-4A
VITAL EVENTS BY COMMUNITY
1996

COMMUNITY	POPULATION (1)	LIVE BIRTHS : OCCURRENCE : : RESIDENT :	DEATHS : OCCURRENCE : : RESIDENT :	INFANT DEATHS : TOTAL : : NEONATAL (2) :	MARRIAGES : LICENSES : : ISSUED (3) : : (4) :	RESIDENT : NATURAL : INCREASE :
STATE TOTAL	6,162,424	81,147 : 80,164	56,023 : 55,187	403 : 290	41,234 : 41,234	24,977
COHASSET	6,915	0	38	0	37	30
COLRAIN	1,683	0	3	0	11	5
CONCORD	18,144	1,508	415	0	110	5
CONWAY	1,792	0	2	0	4	5
CUMMINGTON	834	0	0	0	2	3
DALTON	6,248	0	34	0	29	-3
DANVERS	23,358	1	287	0	42	24
DARTMOUTH	28,293	0	113	2	195	-29
DEDHAM	22,637	0	89	0	121	62
DEERFIELD	5,345	1	51	1	310	19
DENNIS	14,223	0	136	0	32	-98
DIGHTON	5,708	0	18	0	108	9
DOUGLAS	6,673	0	9	0	28	62
DOVER	5,212	0	5	0	37	29
DRACUT	28,900	0	55	0	28	46
DUDLEY	10,343	0	14	1	152	204
DUNSTABLE	2,457	0	5	0	60	36
DUXBURY	13,953	1	82	0	8	39
EAST BRIDGEWATER	12,235	0	44	0	75	57
EAST BROOKFIELD	2,105	1	1	0	74	86
EAST LONGMEADOW	14,001	0	169	0	10	12
EASTHAM	4,718	0	28	0	95	-1
EASTHAMPTON	16,168	0	35	0	24	34
EASTON	21,274	0	67	0	122	79
EDGARTOWN	3,367	1	8	1	132	133
EGREMONT	1,202	0	28	1	104	21
ERVING	1,629	0	6	0	3	-7
ESSEX	2,734	0	5	0	3	6
EVERETT	36,704	1	12	1	25	7
FAIRHAVEN	16,134	1	477	7	315	155
FALL RIVER	92,533	1,661	147	2	128	-90
FALMOUTH	29,929	658	1,425	8	610	-15
			476	1	267	-76
			371		378	

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(4) MARRIAGE FIGURES REFLECT OCCURRENCE, NOT RESIDENCE.

TABLE A-4A
VITAL EVENTS BY COMMUNITY
1996

COMMUNITY	POPULATION (1)	LIVE BIRTHS OCCURRENCE; RESIDENT	DEATHS OCCURRENCE; RESIDENT	INFANT DEATHS TOTAL; NEONATAL (2)	MARRIAGES LICENSES; OCCURRENCE ISSUED; (3); (4)	RESIDENT NATURAL INCREASE
STATE TOTAL	6,162,424	81,147; 80,164	56,023; 55,187	403; 290	41,234; 41,234	24,977
FITCHBURG	40,724	4	470	4	229	117
FLORIDA	768	0	0	0	0	3
FOXBOROUGH	15,361	0	41	0	102	109
FRAMINGHAM	64,489	2,430	636	2	507	405
FRANKLIN	25,444	1	67	1	168	309
FREETOWN	8,709	0	16	0	41	36
GARDNER	20,663	415	316	1	147	14
GAY HEAD	181	0	0	0	6	1
GEORGETOWN	6,969	0	12	0	18	47
GILL	1,664	0	2	0	4	2
GLOUCESTER	28,371	2	309	3	208	90
GOSHEN	837	0	2	0	5	1
GOSNOLD	133	0	1	0	0	0
GRAFTON	13,962	0	23	1	88	104
GRANBY	5,999	0	11	0	29	21
GRANVILLE	1,532	0	2	0	3	13
GREAT BARRINGTON	7,667	163	220	0	99	-64
GREENFIELD	18,860	575	405	3	176	-33
GROTON	8,382	2	17	0	45	102
GROVELAND	5,436	0	6	0	22	43
HADLEY	4,584	0	28	0	34	-2
HALIFAX	7,625	0	28	2	39	11
HAMILTON	7,829	0	11	0	37	82
HAMPDEN	4,365	1	53	0	16	-14
HANCOCK	670	0	5	0	1	-2
HANOVER	12,157	0	28	0	60	85
HANSON	9,425	0	14	1	61	88
HARDWICK	2,535	0	4	0	31	1
HARVARD	12,638	1	11	0	17	8
HARWICH	10,639	0	94	0	82	-65
HATFIELD	2,914	0	8	0	12	2
HAVERHILL	56,686	597	616	4	320	347

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TABLE A-4A
VITAL EVENTS BY COMMUNITY
1996

COMMUNITY	POPULATION (1)	LIVE BIRTHS OCCURRENCE; RESIDENT	DEATHS OCCURRENCE; RESIDENT	INFANT DEATHS TOTAL; NEONATAL (2)	MARRIAGES LICENSES; OCCURRENCE ISSUED; (3); (4)	RESIDENT NATURAL INCREASE
STATE TOTAL	6,162,424	81,147 ; 80,164	56,023 ; 55,187	403 ; 290	41,234 ; 41,234	24,977
HAWLEY	325	0	2	0	1	-2
HEATH	766	0	1	0	2	1
HINGHAM	20,128	1	116	0	129	77
HINSDALE	2,077	0	15	0	6	-2
HOLBROOK	10,874	0	32	0	58	21
HOLDEN	15,104	0	69	0	83	43
HOLLAND	2,189	0	2	0	12	9
HOLLISTON	13,000	1	19	0	65	109
HOLYOKE	41,933	888	863	6	218	148
HOPEDALE	6,361	0	30	1	28	19
HOPKINTON	10,750	0	15	0	52	174
HUBBARDSTON	3,689	1	7	0	10	35
HUDSON	17,880	0	29	1	142	117
HULL	10,655	0	21	2	66	63
HUNTINGTON	2,239	0	0	0	5	15
IPSWICH	11,471	0	61	0	78	39
KINGSTON	10,573	0	82	0	67	55
LAKEVILLE	8,809	1	32	0	41	73
LANCASTER	6,574	1	30	0	11	28
LANESBOROUGH	2,965	0	6	0	8	14
LAWRENCE	69,613	1,542	607	7	381	718
LEE	5,616	0	27	0	51	9
LEICESTER	8,764	1	69	0	62	58
LENOX	4,311	0	60	1	62	-47
LEOMINSTER	42,516	1,722	302	4	316	317
LEVERETT	1,852	1	3	0	3	7
LEXINGTON	29,914	0	255	2	148	-31
LEYDEN	681	0	2	0	3	1
LINCOLN	6,735	1	13	0	33	8
LITTLETON	7,602	2	46	2	40	79
LONGMEADOW	14,878	0	73	1	103	-14
LOWELL	108,347	2,768	1,310	11	643	702

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TABLE A-4A
VITAL EVENTS BY COMMUNITY
1996

COMMUNITY	POPULATION (1)	LIVE BIRTHS OCCURRENCE ; RESIDENT ;	DEATHS OCCURRENCE ; RESIDENT ;	INFANT DEATHS TOTAL ; NEONATAL (2)	MARRIAGES LICENSES : OCCURRENCE ISSUED : (3) ; (4)	RESIDENT NATURAL INCREASE
STATE TOTAL	6,162,424	81,147 ; 80,164 ;	56,023 ; 55,187 ;	403 ; 290 ;	41,234 ; 41,234 ;	24,977
LUDLOW	16,721	0	59	0	139	27
LUNENBURG	9,644	0	30	0	42	32
LYNN	82,069	2	738	11	582	445
LYNNFIELD	10,937	0	13	0	63	39
MALDEN	54,315	473	355	3	381	296
MANCHESTER	5,110	0	15	1	39	13
MANSFIELD	19,164	0	24	1	131	312
MARBLEHEAD	19,876	0	80	0	169	90
MARION	5,290	0	55	0	21	-6
MARLBOROUGH	32,912	1	383	2	179	281
MARSHFIELD	22,220	0	41	0	162	223
MASHPEE	10,526	0	52	1	59	71
MATTAPOISETT	6,093	0	24	0	41	-11
MAYNARD	10,366	1	11	0	54	82
MEDFIELD	10,907	0	24	0	42	141
MEDFORD	57,855	1	481	1	390	45
MEDWAY	10,991	2	41	0	64	117
MELROSE	26,298	1,338	465	1	175	76
MENDON	4,679	0	8	0	31	31
MERRIMAC	5,467	0	6	0	49	56
METHUEN	39,994	1,012	557	3	264	135
MIDDLEBOROUGH	18,977	0	127	2	134	107
MIDDLEFIELD	462	0	0	0	0	6
MIDDLETON	5,870	0	14	0	23	54
MILFORD	24,176	459	453	0	187	129
MILLBURY	12,679	0	78	2	88	13
MILLIS	7,337	0	14	0	62	90
MILLVILLE	2,892	0	3	0	17	46
MILTON	24,661	0	330	1	163	63
MONROE	139	0	0	0	0	0
MONSON	8,244	0	17	0	36	15
MONTAGUE	7,950	0	38	1	61	2

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TABLE A-4A
VITAL EVENTS BY COMMUNITY
1996

COMMUNITY	POPULATION (1)	LIVE BIRTHS : OCCURRENCE : : RESIDENT :	DEATHS : OCCURRENCE : : RESIDENT :	INFANT DEATHS : TOTAL : : NEONATAL (2) :	MARRIAGES : LICENSES : : ISSUED : (3) : : (4) :	RESIDENT NATURAL INCREASE
STATE TOTAL	6,162,424	81,147 : 80,164	56,023 : 55,187	403 : 290	41,234 : 41,234	24,977
MONTEREY	880	0	2	0	4	5
MONTGOMERY	816	0	9	0	0	-1
MOUNT WASHINGTON	141	0	2	0	3	-1
NAHANT	3,462	0	30	0	20	79
NANTUCKET	6,505	63	70	0	196	307
NATICK	29,996	341	298	4	228	135
NEEDHAM	27,365	0	367	0	181	118
NEW ASHFORD	172	0	0	0	0	3
NEW BEDFORD	98,919	1,577	1,354	6	652	128
NEW BRAINTREE	914	0	2	0	5	3
NEW MARLBOROUGH	1,339	0	1	0	5	1
NEW SALEM	838	0	1	0	2	8
NEWBURY	5,981	1	12	0	24	35
NEWBURYPORT	16,666	811	344	1	158	136
NEWTON	82,886	4,316	642	6	608	567
NORFOLK	9,791	2	140	2	37	42
NORTH ADAMS	16,252	358	291	1	98	71
NORTH ANDOVER	24,661	0	139	0	149	184
NORTH ATTLEBORO	26,057	1	77	0	153	116
NORTH BROOKFIELD	4,751	0	13	1	44	30
NORTH READING	11,943	0	52	2	62	69
NORTHAMPTON	31,150	953	576	0	252	235
NORTHBOROUGH	12,661	0	31	0	62	68
NORTHBRIDGE	13,279	2	170	3	98	69
NORTHFIELD	2,899	0	4	1	18	28
NORTON	17,350	1	47	0	83	76
NORWELL	9,090	0	113	2	43	67
NORWOOD	27,430	388	291	2	204	164
OAK BLUFFS	3,260	117	76	1	41	60
OAKHAM	1,734	0	1	0	3	6
ORANGE	7,713	0	7	0	43	41
ORLEANS	6,178	1	34	0	78	107

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TABLE A-4A
VITAL EVENTS BY COMMUNITY
1996

COMMUNITY	POPULATION (1)	LIVE BIRTHS : OCCURRENCE : RESIDENT :	DEATHS : OCCURRENCE : RESIDENT :	INFANT DEATHS : TOTAL : NEONATAL (2)	MARRIAGES : LICENSES : OCCURRENCE ISSUED : (3) : (4)	RESIDENT NATURAL INCREASE
STATE TOTAL	6,162,424	81,147 : 80,164	56,023 : 55,187	403 : 290	41,234 : 41,234	24,977
OTIS	1,106	0	4	0	10	4
OXFORD	13,191	0	43	3	83	71
PALMER	12,149	0	103	1	91	22
PAXTON	4,512	0	11	0	19	3
PEABODY	47,439	0	341	7	325	112
PELHAM	1,443	0	3	0	2	3
PEMBROKE	15,493	0	29	1	78	150
PEPPERELL	11,351	0	17	2	52	117
PERU	777	0	0	0	3	3
PETERSHAM	1,290	1	5	0	8	5
PHILLIPSTON	1,680	0	5	1	4	-1
PITTSFIELD	46,264	980	789	4	380	35
PLAINFIELD	583	1	0	0	8	5
PLAINVILLE	8,110	0	20	0	45	40
PLYMOUTH	49,545	778	554	3	281	239
PLYMPTON	2,813	0	8	0	13	8
PRINCETON	3,256	1	4	1	12	27
PROVINCETOWN	3,194	0	37	0	30	-41
QUINCY	84,045	816	704	4	819	94
RANDOLPH	30,892	0	130	0	187	87
RAYNHAM	10,644	0	51	0	82	45
READING	21,941	0	118	1	113	119
REHOBOTH	9,342	1	9	1	32	52
REVERE	35,848	3	158	1	267	102
RICHMOND	1,608	0	5	0	10	-1
ROCHESTER	4,571	0	13	0	25	18
ROCKLAND	16,727	0	71	0	134	77
ROCKPORT	7,748	1	41	0	61	-20
ROWE	342	0	0	0	2	-1
ROWLEY	5,030	0	24	0	22	32
ROYALSTON	1,143	1	6	0	0	-2
RUSSELL	1,740	0	0	0	3	14

(1) POPULATION DATA ARE EXTRAPOLATIONS OF THE 1990 U.S. CENSUS AND MISER 1995 ESTIMATES. COUNTY AND CITY/TOWN TOTALS ARE DIFFERENT DUE TO ROUNDING.

(2) INFANT AND NEONATAL DEATHS ARE INCLUDED IN TOTAL RESIDENT DEATHS.

(3) MARRIAGE INTENTIONS MAY BE FILED IN ANY MASSACHUSETTS COMMUNITY, REGARDLESS OF WHERE THE BRIDE AND GROOM RESIDE OR WHERE THE MARRIAGE CEREMONY OCCURS.

(4) MARRIAGE FIGURES REFLECT OCCURRENCE, NOT RESIDENCE.

TABLE A-4A
VITAL EVENTS BY COMMUNITY
1996

COMMUNITY	POPULATION (1)	LIVE BIRTHS : OCCURRENCE : : RESIDENT :	DEATHS : OCCURRENCE : : RESIDENT :	INFANT DEATHS : TOTAL : : NEONATAL (2) :	MARRIAGES : LICENSES : : ISSUED (3) : : (4) :	RESIDENT : NATURAL : INCREASE :
STATE TOTAL	6,162,424	81,147 : 80,164	56,023 : 55,187	403 : 290	41,234 : 41,234	24,977
RUTLAND	5,069	0	9	1	27	56
SALEM	41,393	1,759	714	2	291	136
SALISBURY	6,980	0	26	0	39	30
SANDSFIELD	607	0	0	0	43	8
SANDWICH	19,425	0	83	0	2	5
SAUGUS	24,284	0	125	0	118	83
SAVOY	716	0	0	1	172	19
SCITUATE	16,050	1	87	0	1	6
SEEKONK	13,107	0	27	0	102	56
SHARON	15,536	2	107	2	141	22
SHEFFIELD	3,178	0	70	1	67	147
SHELBURNE	2,198	0	26	0	40	12
SHERBORN	3,912	0	14	0	11	-9
SHIRLEY	6,893	0	16	0	24	30
SHREWSBURY	27,235	1	38	0	27	44
SHUTESBURY	2,101	1	104	3	160	170
SOMERSET	17,185	1	2	0	4	13
SOMERVILLE	80,055	0	74	0	132	-51
SOUTH HADLEY	17,794	2	289	5	492	353
SOUTHAMPTON	4,799	1	167	2	96	-18
SOUTHBOROUGH	7,313	0	9	0	25	29
SOUTHBRIDGE	18,028	418	14	0	35	103
SOUTHWICK	8,366	0	288	1	150	10
SPENCER	11,912	1	7	1	63	53
SPRINGFIELD	155,535	5,338	23	1	77	34
STERLING	6,837	0	2,276	19	930	821
STOCKBRIDGE	2,093	0	11	0	41	41
STONEHAM	21,073	1	8	0	31	-9
STOUGHTON	27,719	1,251	182	1	157	18
STOW	5,777	0	313	2	189	74
STURBRIDGE	7,446	0	27	0	31	60
SUDBURY	13,347	0	64	1	68	19
			49	0	317	162

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(4) MARRIAGE FIGURES REFLECT OCCURRENCE, NOT RESIDENCE.

TABLE A-4A
VITAL EVENTS BY COMMUNITY
1996

COMMUNITY	POPULATION (1)	LIVE BIRTHS OCCURRENCE: RESIDENT :	DEATHS OCCURRENCE: RESIDENT :	INFANT DEATHS TOTAL : NEONATAL (2)	MARRIAGES LICENSES: OCCURRENCE ISSUED : (3) : (4)	RESIDENT NATURAL INCREASE
STATE TOTAL	6,162,424	81,147 : 80,164	56,023 : 55,187	403 : 290	41,234 : 41,234	24,977
SUNDERLAND	3,546	0	17	0	12	22
SUTTON	7,443	0	16	0	26	70
SWAMPSCOTT	13,847	0	64	0	71	10
SWANSEA	15,290	0	126	0	91	1
TAUNTON	52,746	674	534	3	103	326
TEMPLETON	7,048	0	45	0	396	13
TEWKSBURY	29,540	0	127	0	48	209
TISBURY	3,098	2	9	4	191	8
TOLLAND	328	0	0	0	47	3
TOPSFIELD	5,909	0	0	0	0	25
TOWNSEND	8,866	1	8	0	21	80
TRURO	1,701	0	10	1	41	-8
TYNGSBOROUGH	9,521	0	10	0	7	119
TYRINGHAM	377	0	11	1	64	-4
UPTON	5,033	0	1	0	2	81
UXBRIDGE	12,039	0	19	0	24	88
WAKEFIELD	23,763	0	15	0	67	89
WALES	1,605	0	165	2	194	9
WALPOLE	20,883	0	2	0	9	135
WALTHAM	61,116	310	71	2	159	240
WARE	10,053	249	444	6	445	30
WAREHAM	20,043	421	98	1	61	33
WARREN	4,941	1	264	0	134	28
WARWICK	803	0	8	0	23	2
WASHINGTON	655	0	3	0	1	-2
WATERTOWN	33,934	2	14	0	2	103
WAYLAND	11,789	0	127	3	295	96
WEBSTER	16,809	1	51	2	46	-10
WELLESLEY	27,156	46	223	0	127	154
WELLFLEET	2,609	1	110	1	102	-3
WENDELL	982	0	8	0	28	-3
WENHAM	4,570	0	0	0	0	6

(1) POPULATION DATA ARE EXTRAPOLATIONS OF THE 1990 U.S. CENSUS AND MISER 1995 ESTIMATES. COUNTY AND CITY/TOWN TOTALS ARE DIFFERENT DUE TO ROUNDING.

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(4) MARRIAGE FIGURES REFLECT OCCURRENCE, NOT RESIDENCE.

TABLE A-4A
VITAL EVENTS BY COMMUNITY
1996

COMMUNITY	POPULATION (1)	LIVE BIRTHS		DEATHS		INFANT DEATHS		MARRIAGES		RESIDENT NATURAL INCREASE
		OCCURRENCE	RESIDENT	OCCURRENCE	RESIDENT	TOTAL	NEONATAL	LICENSES ISSUED	OCCURRENCE	
STATE TOTAL	6,162,424	81,147	80,164	56,023	55,187	403	290	41,234	41,234	24,977
WEST BOYLSTON	7,384	1	65	44	77	0	0	31	40	-12
WEST BRIDGEWATER	6,670	0	93	37	71	0	0	45	62	22
WEST BROOKFIELD	3,674	0	37	50	49	0	0	24	60	-12
WEST NEWBURY	3,596	0	65	12	23	0	0	6	15	42
WEST SPRINGFIELD	28,226	1	309	151	284	1	0	183	203	25
WEST STOCKBRIDGE	1,466	1	15	4	10	0	0	7	20	5
WEST TISBURY	2,145	1	20	5	15	0	0	17	47	5
WESTBOROUGH	15,731	1	210	124	155	0	0	97	79	55
WESTFIELD	40,556	4	475	384	371	4	4	260	333	104
WESTFORD	17,793	0	298	67	96	0	0	80	83	202
WESTHAMPTON	1,443	0	21	3	6	0	0	2	6	15
WESTMINSTER	6,856	0	62	8	37	0	0	29	57	25
WESTON	11,229	2	102	74	114	0	0	65	110	-12
WESTPORT	14,223	1	127	44	114	0	0	66	86	13
WESTWOOD	12,434	1	177	55	145	0	0	89	55	32
WEYMOUTH	53,654	3,109	747	946	499	4	4	334	334	248
WHATELY	1,418	0	12	2	9	0	0	5	11	3
WHITMAN	12,245	0	200	17	77	2	2	109	93	123
WILBRAHAM	12,624	0	119	123	135	0	0	70	69	-16
WILLIAMSBURG	2,599	0	18	4	15	0	0	14	22	3
WILLIAMSTOWN	8,417	1	33	123	88	0	0	47	62	-55
WILMINGTON	18,033	0	333	131	158	0	0	108	101	175
WINCHENDON	9,584	1	130	24	72	0	0	47	28	58
WINCHESTER	18,481	2,269	245	384	197	0	0	125	151	48
WINDSOR	18,830	0	11	1	5	0	0	3	4	6
WINTHROP	17,430	0	211	115	218	3	2	136	107	-7
WOBRUN	35,484	0	432	172	327	0	0	278	221	105
WORCESTER	171,521	5,863	2,253	3,183	1,919	22	19	1,189	1,211	334
WORTHINGTON	1,242	0	8	0	5	0	0	5	7	3
WRENTHAM	10,092	0	183	60	83	1	1	39	51	100
YARMOUTH	21,885	0	190	194	379	2	0	131	145	-189
UNKNOWN	0	0	2	0	0	0	0	0	0	2

(1) POPULATION DATA ARE EXTRAPOLATIONS OF THE 1990 U.S. CENSUS AND MISER 1995 ESTIMATES. COUNTY AND CITY/TOWN TOTALS ARE DIFFERENT DUE TO ROUNDING.

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(4) MARRIAGE FIGURES REFLECT OCCURRENCE, NOT RESIDENCE.

TABLE A-4B
VITAL EVENTS BY COUNTY
1996

COUNTY	POPULATION (1,2)	LIVE BIRTHS OCCURRENCE: RESIDENT	DEATHS OCCURRENCE: RESIDENT	INFANT DEATHS TOTAL : NEONATAL (3)	MARRIAGES (4)	DIVORCES (4)	RESIDENT NATURAL INCREASE
STATE TOTAL	6,163,046	81,147 : 80,164	56,023 : 55,187	403 : 290	41,234	15,485	24,977
BARNSTABLE	202,603	1,683	2,389	4	2,225	608	-449
BERKSHIRE	134,856	1,505	1,676	7	1,016	399	-184
BRISTOL	522,702	4,697	4,626	29	3,315	1,579	1,604
BUCKINGHAM	12,833	122	99	2	410	58	41
CHESHIRE	681,587	8,607	6,055	54	4,957	2,035	3,258
DEVELOPMENT	72,385	579	539	5	420	279	73
ESSEX	456,437	6,235	4,818	40	2,739	1,354	1,239
HAMPDEN	154,723	1,208	952	3	903	390	219
HAMPSHIRE	1,425,782	18,739	11,006	86	8,782	3,081	7,666
MIDDLESEX	6,511	63	70	0	307	27	21
NANTUCKET	626,123	5,091	4,980	24	3,836	1,403	2,767
NORFOLK	455,044	3,551	3,363	32	2,935	1,427	2,503
PLYMOUTH	669,389	20,167	8,524	62	4,807	788	3,444
SUFFOLK	742,071	8,900	6,926	55	4,582	2,057	2,773
WORCESTER	0	0	0	0	0	0	2
UNKNOWN							

(1) POPULATION DATA ARE EXTRAPOLATIONS OF THE 1990 U.S. CENSUS AND THE MISER 1995 ESTIMATES.

(2) COUNTY AND CITY/TOWN POPULATION TOTALS ARE DIFFERENT DUE TO ROUNDING.

(3) INFANT AND NEONATAL DEATHS ARE INCLUDED IN TOTAL RESIDENT DEATHS.

(4) MARRIAGE AND DIVORCE FIGURES REFLECT OCCURRENCE, NOT RESIDENCE.

BIRTHS

SECTION B

BIRTHS

There were 80,164 live births to Massachusetts residents in 1996, a 1.7% decrease from the 81,562 resident live births in 1995. Live births to Massachusetts residents include all births to Massachusetts residents, regardless of the state in which the births occurred. Most data presented in this section are resident data. Table B-13 presents births by hospital/birthing center of occurrence, which includes births to women who live in other states.

OCCURRENCE BIRTHS

In 1996, 81,147 births occurred in Massachusetts. All but 233 births occurred at the 58 hospitals with maternity units or birthing centers in this state. The number of babies delivered at these hospitals/birthing centers ranged from 45 at The Birthplace at Wellesley¹ in Wellesley to 8,483 at Brigham and Women's Hospital in Boston. The median number of births per facility was 996, an increase from the median number of 968 in 1995. The four hospitals with the greatest numbers of births -- Brigham and Women's (8,483), Baystate Medical Center (5,183), Beth Israel (5,132), and Newton-Wellesley Hospital (4,316) -- represented 28.5% of all births occurring in Massachusetts. The distribution of Massachusetts births by hospital size is presented below.

1996 DISTRIBUTION OF MASSACHUSETTS
OCCURRENCE BIRTHS BY HOSPITAL

NUMBER OF BIRTHS AT HOSPITAL	NUMBER OF HOSPITALS IN CATEGORY	TOTAL NUMBER OF BIRTHS IN CATEGORY	% OF TOTAL BIRTHS
< 500	17	4,798	5.9
500-999	12	8,819	10.9
1000-1499	8	9,170	11.3
1500-1999	10	16,277	20.0
≥ 2000	11	41,850	51.6
ALL OTHER ²		233	0.3
TOTAL	58	81,147	100.0

¹ The Birthplace at Wellesley opened in December 1995.

² Includes hospitals without maternity units, home births, births en route to hospital and births occurring in a doctor's office/clinic.

BIRTHS BY RACE/ETHNICITY

There are a number of points to keep in mind when analyzing 1996 data by race/ethnicity. Since June 1986, information on both race and ethnicity rather than just race has been collected. This provides improved data, particularly for Hispanic births. Presented for comparison below are resident birth data for calendar years 1995 and 1996, utilizing maternal race and Hispanic ethnicity information:

RACE AND HISPANIC ETHNICITY OF MOTHER 1995 - 1996

MATERNAL RACE/ETHNICITY	1996		1995		CHANGE (1996-1995)
	TOTAL BIRTHS	% OF BIRTHS	TOTAL BIRTHS	% OF BIRTHS	
White non-Hispanic	61,716	77.0	63,029	77.3	- 1,313
Black non-Hispanic	5,473	6.8	5,854	7.2	- 381
Hispanic	7,746	9.7	8,077	9.9	- 331
Asian	3,594	4.5	3,436	4.2	+ 158
Other ³	1,097	1.4	972	1.2	+ 125
Unknown ⁴	538	0.7	194	0.2	+ 344
TOTAL	80,164	100.0 ⁵	81,562	100.0	- 1,398

The final point which must be considered is the method used to present data by race/ethnicity. Massachusetts follows the recommendation from the National Center for Health Statistics (NCHS) for classifying race/ethnicity on the birth certificate according to the self-reported race/ethnicity of the mother. Beginning with 1989 births, birth data are presented by race/ethnicity of the mother only.

TEEN BIRTHS

The number of births to mothers aged 15-19 continued to decrease for the seventh consecutive year -- from 5,990 in 1995 to 5,758 in 1996. The teen birth rate over the same period declined 9.2%, with the rate going from 35.9 in 1989 to 32.6 births per 1,000 women aged 15-19. The percentage of total births to women under age 20 has decreased markedly, from a peak of 12.7% in 1975 to 7.3% in 1996.

³ Other races include American Indian, Hawaiian, and Other.

⁴ Unknown race: mothers did not indicate a race/ethnicity.

⁵ Percents may not sum to 100.0 due to rounding.

BIRTHS BY MARITAL STATUS

The percentage of births to unmarried women decreased from 25.6% of all resident births in 1995 to 25.3% of all resident births in 1996. Almost 67% of these births to unmarried women were registered with paternity acknowledgments from the biological father. Over 90% of the mothers under the age of 20 were unmarried, while 20.1% of the mothers ages 20 or older were unmarried.

BIRTHS BY AGE OF MOTHER

The largest percentage increase in births between the years 1995 and 1996 (6.0%) was to mothers in the 40-44 age group, as shown below.

AGE OF MOTHER	NUMBER OF BIRTHS 1996	NUMBER OF BIRTHS 1995	DIFFERENCE IN THE NO. OF BIRTHS 1995-1996	PERCENTAGE CHANGE 1995-1996
< 20	5,849	6,107	- 258	- 4.2
20-24	11,919	12,742	- 823	- 6.5
25-29	21,496	22,346	- 850	- 3.8
30-34	26,354	26,402	- 48	- 0.2
35-39	12,260	11,803	+ 457	+ 3.9
40-44	2,186	2,063	+ 123	+ 6.0
≥ 45	98	97	+ 1	+ 1.0

BIRTHS BY CAESAREAN SECTION

The number of Caesarean section deliveries in Massachusetts decreased from 16,758 in 1995 to 16,048 in 1996, dropping by 4.2%. In 1996, Caesarean section was the method of delivery for 20.0% of the births in Massachusetts maternity care facilities regardless of mother's place of residence. (Calculations are based on births with known method of delivery.)

HOSPITAL PROFILES

The following is a synopsis of the data presented in Table B-13, Occurrence and Caesarean Births by Licensed Maternity Facility:

- In 1996, 81,147 births occurred in Massachusetts, a decrease of 14.0% since 1990. Caesarean section was the method of delivery for 20.0% of 1996 births. (Calculations are based on births with known method of delivery.)
- In 1996, at least 10% of the births in five hospitals were low birthweight. These hospitals were: Boston Medical Center, Brigham and Women's, Memorial Hospital (Worcester), New England Medical Center, Massachusetts General Hospital, and Saint Elizabeth's Hospital.
- In three hospitals, 50% or more of the deliveries were paid with public funds: Boston Medical Center, Cambridge, and Providence. In ten facilities, less than 10% of deliveries were paid with public funds: Boston Regional Medical Center, Emerson, Metro West-Leonard Morse, Mount Auburn, Nantucket Cottage Hospital, Newton-Wellesley, North Shore Birthing Center, South Shore, The Birthplace at Wellesley and Winchester Hospital.
- In 1996, 27 of the 58 licensed maternity facilities exceeded the state-wide average (80.1%) for adequacy of prenatal care for their patients. However, three maternity facilities had less than 60% of their patients receiving adequate prenatal care: Boston Medical Center, Cambridge Hospital, and Lawrence General.
- Statewide, the lowest rates of Caesarean section deliveries were at the following hospitals: Deaconess Waltham Hospital (12.4%), Franklin Medical Center (14.1%), Providence Hospital (14.5%), and Saint Vincent Hospital (14.8%).
- In 1996, no hospital reported Caesarean section as the method of delivery for 30% or more of its births for the third consecutive year. Six hospitals had Caesarean section delivery rates of 25% or more.

LOW BIRTHWEIGHT INFANTS

The percentage of low birthweight infants (less than 2,500 grams or five pounds eight ounces) increased slightly from 6.3% in 1995 to 6.4% in 1996. However, the actual number of low birthweight deliveries decreased from 5,174 births in 1995 to 5,105 births in 1996. A recent analysis of multiple births demonstrated that the rise in the percentage of low birthweight infants is accounted for by the recent increase in multiple births, most of which are occurring among older mothers. Higher-order multiple births (triplets, quadruplets, quintuplets) reflect the rising number of births to women over age 30, who are more likely to have a multiple birth and are more likely to use fertility-enhancing drugs and techniques.

DEFINITIONS IMPORTANT FOR THIS SECTION INCLUDE:

ADEQUACY OF PRENATAL CARE

The Index of Adequacy of Prenatal Care (based on the Kessner Index) has five categories (adequate, intermediate, inadequate, no prenatal care, and unknown), based on the trimester in which prenatal care began and the number of prenatal visits. The general classification scheme is as follows:

CATEGORY	TRIMESTER CARE BEGAN	# OF VISITS
Adequate	1	9 or more
Intermediate	1	5-8
	2	5 or more
Inadequate	1	1-4
	2	1-4
	3	1 or more
No prenatal care	--	0
Unknown	Unknown	Unknown

This classification is adjusted for gestational age to allow for proper classification of premature births.

BIRTHWEIGHT

The weight of an infant recorded at the time of delivery. It may be recorded in either pounds/ounces or grams. If recorded in pounds/ounces, it is converted to grams for use in this report.

1 pound = 453.6 grams

1,000 grams = 2 pounds, 3 ounces

BIRTHWEIGHT CATEGORIES

Normal birthweight (NBW): An infant's weight of 2,500 grams (5.5 pounds) or more recorded at birth.

Low birthweight (LBW): An infant's weight of less than 2,500 grams (5.5 pounds) recorded at birth.

Very low birthweight (VLBW): An infant's weight of less than 1,500 grams (3.3 pounds) recorded at birth.

CAESAREAN SECTION or C-SECTION

Primary: A mother's first Caesarean section delivery.

Repeat: A Caesarean delivery that has been preceded by at least one Caesarean delivery.

ETHNICITY

See Race.

INFANT

A child whose age is less than one year (365 days).

LIVE BIRTH

A live birth is any infant who breathes or shows any other evidence of life (such as beating of the heart, pulsation of the umbilical cord, or definite movement of voluntary muscles) after separation from the mother's uterus, regardless of the duration of gestation.

LOW BIRTHWEIGHT (LBW)

See Birthweight Categories.

NEONATE

A child under 28 days of age.

NORMAL BIRTHWEIGHT (NBW)

See Birthweight Categories.

OCCURRENCE BIRTH

A birth occurring in the Commonwealth of Massachusetts, regardless of the residency of the mother. In Massachusetts, the place will be one of the 351 cities or towns. See Resident Birth.

PARITY

Total number of live births, including the present birth, ever born to the mother.

POST NEONATE

A child whose age is at least 28 days, but less than one year.

PRIMARY CAESAREAN SECTION or C-SECTION

See Caesarean Section.

RACE

Assignment of an Infant's Race/Ethnicity: Prior to 1989, the race/ethnicity of an infant was assigned by combining information on the race/ethnicity of the mother and the race/ethnicity of the father. Since 1989, Massachusetts has followed the National Center for Health Statistics' recommendation of classifying births according to the self-reported race/ethnicity of the mother. Therefore, beginning in 1989, the race/ethnicity of an infant is identical to the self-reported race/ethnicity of the infant's mother.

Race of mother: For data presented in this publication, mother's race is as reported by the infant's mother.

Hispanic Ethnicity: Beginning in 1986, an identifier for Hispanic ethnicity was added to the birth certificate. Prior to this change, most Hispanics were included with whites and it was not possible to accurately calculate Hispanic-specific rates of natality.

REPEAT CAESAREAN SECTION or C-SECTION

See Caesarean Section.

RESIDENT BIRTH

The birth of an infant whose mother reports that her usual place of residence is in Massachusetts. In Massachusetts, a resident is a person with a permanent address in one of the 351 cities or towns. Vital statistics data may be presented in terms either of residence or occurrence. Unless otherwise noted, all data in this publication are resident data. Resident data include all events that occur to residents of the Commonwealth, wherever they occur. Occurrence data include all events that occur within the state, whether to residents or non-residents. There is an exchange agreement among the 50 states, Canada, Puerto Rico, Guam, the Virgin Islands, and the District of Columbia that provides for exchange of copies of birth and death records. These records are used for statistical purposes only, and allow each state or province to track the births and deaths of its residents.

VERY LOW BIRTHWEIGHT (VLBW)

See Birthweight Categories.

RATES IMPORTANT FOR THIS SECTION INCLUDE:

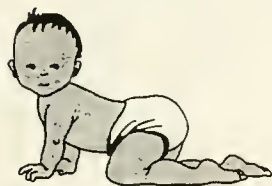
AGE-SPECIFIC BIRTH RATE	$\frac{\text{No. of Resident Live Births for a Specific Age Group of Mothers}}{\text{Total Female Population of That Specific Age Group}} \times 1,000$
CRUDE BIRTH RATE	$\frac{\text{No. of Resident Live Births}}{\text{Total Resident Population}} \times 1,000$
GENERAL FERTILITY RATE	$\frac{\text{No. of Resident Live Births}}{\text{Total Female Population of Childbearing Age (15-44)}} \times 1,000$
CAESAREAN SECTION or C-SECTION RATE	$\frac{\text{No. of Resident Births Delivered by C-Section}}{\text{Total Number of Resident Births}} \times 100$

Figure B-1. Daily Birth Statistics, Massachusetts: 1996

Everyday in 1996, residents of Massachusetts experienced an average of:



219 Births



43 Births by Caesarean Section



40 Births to women ages 35 or older



48 Births with less than adequate
prenatal care



16 Births to women ages 15 through 19



14 Births weighing less than 2500 grams
or 5 lbs. 8 oz. (low birthweight)

Table B-1. Trends in Birth Characteristics, Massachusetts: 1980, 1985, 1990-1996

Year	1980	1985	1990	1991	1992	1993	1994	1995	1996
Births¹									
# ²	72,591	81,781	92,461	88,176	87,202	84,627	83,758	81,562	80,164
Rate ³	53.4	57.5	62.1	59.6	59.2	57.8	57.5	56.3	55.6
Race of Mother									
White⁴									
#	66,220	71,854	80,775	76,983	76,052	73,704	72,980	71,083	69,485
%	91.2	87.9	87.4	87.3	87.2	87.1	87.1	87.2	86.7
Black									
#	4,626	5,099	7,729	7,352	7,203	6,916	6,713	6,299	5,946
%	6.4	6.2	8.3	8.3	8.3	8.2	8.0	7.7	7.4
Asian/Other⁵									
#	1,069	1,741	3,688	3,566	3,582	3,664	3,790	3,817	3,950
%	1.5	2.1	4.0	4.0	4.1	4.3	4.5	4.7	4.9
Unknown									
#	676	3,087	269	275	365	343	275	363	783
%	0.9	3.8	0.3	0.3	0.4	0.4	0.3	0.4	1.0
Teenage Births (Ages 15-19)									
#	7,694	6,859	7,258	6,892	6,555	6,469	6,412	5,990	5,758
Rate ⁶	28.1	28.7	35.4	34.2	33.3	33.7	34.3	33.0	32.6
Births to Unmarried Mothers									
#	11,356	15,044	22,837	22,852	22,612	22,345	22,302	20,857	20,253
%	15.6	18.4	24.7	25.9	25.9	26.4	26.6	25.6	25.3
Low Birthweight									
#	4,413	4,751	5,388	5,199	5,137	5,202	5,335	5,174	5,105
%	6.1	5.8	5.8	5.9	5.9	6.1	6.4	6.3	6.4
Adequate Prenatal Care									
% ⁷	82.0	79.4	80.1	81.6	82.9	83.8	84.3	84.2	80.2
%	79.6	78.6	78.8	81.2	82.7	83.6	84.1	83.6	78.0

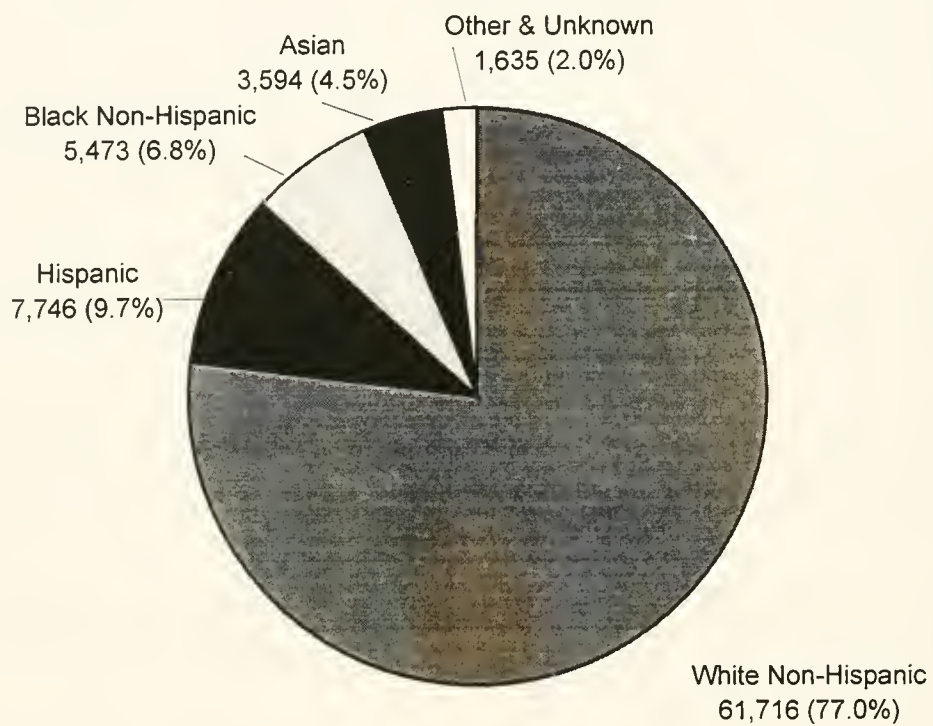
¹ Births presented in all tables are resident live births unless otherwise specified. ² Differences in numbers of births from previous publications are the result of updated files. ³ Rate equals total births to women 15-44 per 1,000 women ages 15-44. Differences in rates from previous publications are the result of modifications of population estimates. ⁴ On tables and graphs which include data prior to June 1986, the race classifications do not include an ethnicity component; most Hispanics are included in the race category of white. ⁵ Other races include American Indian, Hawaiian, and others not specified. ⁶ Rate per 1,000 females ages 15-19. ⁷ Percentages in upper row are based on births with known scores of adequacy of prenatal care; bottom row percentages are based on total numbers of births. In subsequent tables and figures, percentage with adequate prenatal care is computed only on births with known adequacy scores.

Table B-2. Birth Characteristics by Race and Ethnicity, Massachusetts, 1996

Race and Ethnicity	Births ¹	Teen Births				Birthweight				Prenatal Care				Caesarean Section				Breast Feeding ⁴			
		#	%	#	%	#	%	#	%	Adequate	%	#	%	%	#	%	%	#	%		
State Total	80,164	100.0	2,235	2.8	5,849	7.3	929	1.2	5,105	6.4	62,547	80.2	66,057	83.9	15,632	19.7	51,058	66.5			
White Non-Hispanic	61,716	77.0	979	1.6	2,952	4.8	609	1.0	3,528	5.7	50,779	83.9	53,331	87.3	12,378	20.2	39,690	66.8			
Black non-Hispanic	5,473	6.8	335	6.1	810	14.8	165	3.0	634	11.6	3,532	66.4	3,822	71.2	1,105	20.3	3,397	64.9			
Hispanic	877	1.1	16	1.8	47	5.4	22	2.5	68	7.8	572	67.1	617	71.7	192	21.9	690	81.9			
Haitian	572	0.7	18	3.1	53	9.3	19	3.3	68	11.9	390	69.4	422	74.3	125	21.9	435	79.8			
Other West Indian																					
Indian American	3,206	4.0	279	8.7	651	20.3	111	3.5	435	13.6	2,030	65.0	2,210	70.2	596	18.8	1,661	53.9			
Other Black	818	1.0	22	2.7	59	7.2	13	1.6	63	7.7	540	69.2	573	72.2	192	23.8	611	79.8			
Hispanic	7,746	9.7	765	9.9	1,722	22.2	102	1.3	610	7.9	4,923	65.9	5,373	71.1	1,334	17.3	5,060	67.0			
Puerto Rican	4,078	5.1	605	14.8	1,276	31.3	60	1.5	354	8.7	2,541	64.2	2,799	70.1	641	15.8	2,230	55.6			
Dominican	1,301	1.6	72	5.5	205	15.8	14	1.1	81	6.2	816	65.0	897	71.0	266	20.6	969	78.1			
Central American	1,078	1.3	46	4.3	119	11.0	9	0.8	81	7.5	627	61.4	684	65.8	161	15.0	874	83.0			
South American	633	0.8	8	1.3	32	5.1	5	0.8	27	4.3	472	77.0	495	79.7	134	21.3	511	82.8			
Other Hisp	656	0.8	34	5.2	90	13.7	14	2.1	67	10.2	467	74.5	498	77.8	132	20.3	476	75.6			
Asian	3,594	4.5	80	2.2	164	4.6	35	1.0	237	6.6	2,552	72.6	2,699	76.2	567	15.8	2,144	61.6			
Chinese	1,082	1.3	5	0.5	10	0.9	3	-- ⁵	55	5.1	884	83.2	920	86.1	167	15.5	648	62.5			
Vietnamese	598	0.7	15	2.5	37	6.2	6	1.0	32	5.4	378	64.8	414	70.4	79	13.2	219	37.0			
Cambodian	481	0.6	36	7.5	64	13.3	11	2.3	42	8.7	223	47.1	240	50.5	48	10.0	159	33.5			
Other S.E. Asian	165	0.2	13	7.9	17	10.3	5	3.0	19	11.5	86	53.4	93	57.4	25	15.3	87	53.4			
Other Asian	1,268	1.6	11	0.9	36	2.8	10	0.8	89	7.0	981	79.4	1,032	82.6	248	19.7	1,031	84.9			
Other ⁶	1,097	1.4	58	5.3	155	14.1	15	1.4	88	8.0	696	65.7	762	70.8	230	21.1	715	66.6			
Unknown ⁷	538	0.7	18	3.3	46	8.6	3	0.6	11	1.5	65	84.4	70	88.6	18	13.8	52	71.2			

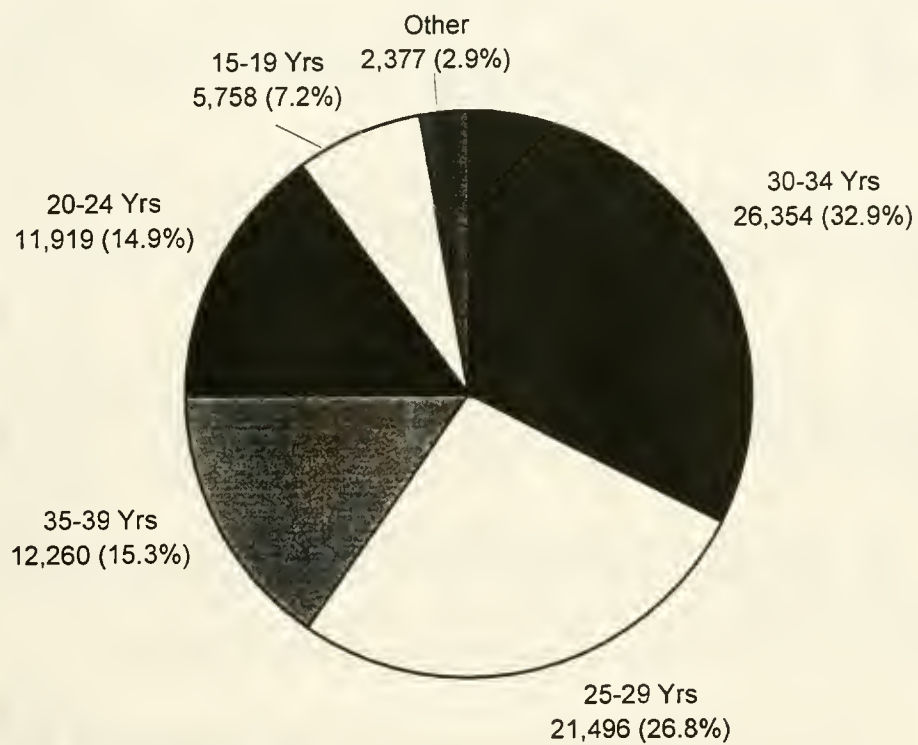
¹ In the first category, "Births", percentages are based on column totals. For all other categories, percentages are based on row totals. For Prenatal Care, Caesarean Section, and Breastfeeding variables, percentages are calculated only for cases where information is known. ² Very low birthweight: < 1,500 grams or 3.3 pounds. ³ Low birthweight: < 2,500 grams or 5.5 pounds. ⁴ Mother was breastfeeding or was intending to breastfeed at the time the birth certificate was completed. ⁵ Calculations based on fewer than five events are excluded. ⁶ Other: Mothers who designated themselves as Other race. ⁷ Unknown: Mothers who did not indicate a race/ethnicity.

Figure B-2. Resident Live Births by Mother's Race/Ethnicity: 1996



Total number of births = 80,164

Figure B-3. Resident Live Births by Mother's Age: 1996



Total number of births = 80,164

Table B-3A. Resident Birth Characteristics: 30 Largest Municipalities, Massachusetts: 1996^{1,2}

Municipality	Rank	Population	Crude Birth rate ³	Mother's Race and Ethnicity			Asian or Other ⁴	Very Low Birthweight (<1500 gms.)		Low Birthweight (<2500 gms.)	
				White Non-Hispanic %	Black Non-Hispanic %	Hispanic %		%	%	%	%
STATE TOTAL		6,162,187	13.0	77.0	6.8	9.7	5.9	1.2	6.4		
Arlington	28	42,361	12.9	86.1	2.4	2.0	9.2	-- ⁵	7.0		
Barnstable	26	44,136	11.3	87.6	4.0	4.4	3.6	-- ⁵	4.8		
Boston	1	584,132	13.2	34.9	34.1	20.0	9.4	1.9	9.0		
Brockton	8	91,031	15.5	54.4	21.0	10.8	13.4	1.4	9.4		
Brookline	16	60,415	10.1	78.1	2.6	3.5	15.5	0.8	5.5		
Cambridge	5	100,565	9.6	56.9	18.3	9.7	14.4	0.8	5.8		
Chicopee	18	56,798	10.5	84.6	2.3	11.4	1.5	1.7	7.4		
Fall River	7	92,533	12.1	92.1	1.9	2.5	3.5	0.6	9.1		
Framingham	14	64,489	14.4	65.4	5.7	17.1	11.7	0.8	5.9		
Haverhill	19	56,686	16.1	86.7	1.1	9.5	2.6	1.1	5.2		
Holyoke	29	41,933	17.2	34.7	1.9	61.3	1.8	1.7	8.5		
Lawrence	13	69,613	18.0	27.7	2.7	65.2	3.8	1.5	6.4		
Leominster	27	42,516	14.7	77.4	2.9	14.4	5.1	-- ⁵	6.1		
Lowell	4	108,347	15.2	55.1	3.8	18.7	21.7	1.8	7.7		
Lynn	11	82,069	16.0	49.1	11.8	26.0	10.7	1.8	6.8		
Malden	20	54,315	14.3	60.1	12.5	6.3	20.4	1.6	7.3		
Medford	17	57,855	11.5	82.6	8.4	2.9	5.9	-- ⁵	5.2		
New Bedford	6	98,919	12.6	72.7	5.2	13.8	7.2	0.7	6.9		
Newton	10	82,886	10.6	86.7	1.7	3.1	8.4	1.5	6.5		
Peabody	24	47,439	11.9	89.0	0.7	6.0	2.5	0.9	4.5		
Pittsfield	25	46,264	12.7	90.3	5.1	1.7	2.9	-- ⁵	7.8		
Plymouth	23	49,545	12.9	95.6	1.4	0.8	2.2	-- ⁵	5.8		
Plymouth	9	84,045	12.1	75.0	3.4	1.8	19.6	0.6	4.9		
Quincy	30	41,393	13.1	78.0	2.4	14.2	2.6	-- ⁵	5.7		
Salem	12	80,055	11.9	57.5	12.4	18.0	11.0	1.5	7.9		
Somerville	3	155,535	14.6	41.4	21.9	32.9	3.8	1.7	8.5		
Springfield	22	52,746	14.8	88.8	3.1	5.1	3.0	0.9	6.2		
Taunton	15	61,116	12.2	67.6	7.5	14.4	9.7	1.5	5.8		
Waltham	21	53,654	13.9	94.2	2.0	1.1	2.4	1.9	6.6		
Weymouth	2	171,521	13.1	62.5	8.1	20.3	9.0	2.1	8.3		

Table B-3A. (cont'd) Birth Characteristics: 30 Largest Municipalities, Massachusetts: 1996

Municipality	Births		Unmarried %	Teen Mothers 15 to 19 years #	Death Rates ⁶	
	Adequate Prenatal Care ⁷ %	Public Payment for Prenatal Care %			Infant <1 year Rate	Neonatal < 28 days Rate
STATE TOTAL	80.2	24.2	25.3	5,758	32.6	5.0
Arlington	89.6	5.0	5.1	4	-- ⁵	12.8
Barnstable	80.8	20.2	22.0	27	27.7	0.0
Boston	75.7	44.5	45.4	794	44.1	7.3
Brockton	63.9	45.8	50.6	208	74.4	7.8
Brookline	88.2	6.3	6.8	9	7.2	0.0
Cambridge	78.2	19.6	21.8	46	14.6	-- ⁵
Chicopee	73.5	38.1	39.2	64	37.4	-- ⁵
Fall River	76.2	46.4	42.2	152	55.9	7.1
Framingham	87.6	24.0	22.4	45	26.3	-- ⁵
Haverhill	77.6	27.8	27.2	69	47.8	-- ⁵
Holyoke	65.5	67.8	61.5	188	102.6	8.3
Lawrence	48.0	63.1	60.4	278	83.7	5.6
Leominster	79.8	23.4	29.8	72	68.5	-- ⁵
Lowell	66.2	48.7	48.3	233	63.9	6.7
Lynn	72.6	51.5	48.2	155	62.9	8.4
Malden	76.3	25.7	23.2	38	33.0	-- ⁵
Medford	82.9	15.0	15.5	22	13.6	-- ⁵
New Bedford	73.6	52.8	47.6	216	64.6	4.8
Newton	90.4	3.6	6.8	9	2.8	6.8
Peabody	87.8	14.0	15.0	23	22.6	12.4
Pittsfield	72.3	35.2	35.8	56	58.9	-- ⁵
Plymouth	80.8	19.4	20.2	39	26.6	-- ⁵
Quincy	82.9	20.8	19.3	38	26.1	-- ⁵
Salem	84.1	29.2	31.4	40	37.5	-- ⁵
Somerville	73.2	41.1	31.7	71	39.1	5.2
Springfield	65.6	58.2	57.0	479	82.5	8.3
Taunton	76.7	28.8	33.1	98	70.1	-- ⁵
Waltham	85.5	17.8	19.1	33	15.7	8.1
Weymouth	83.8	11.1	17.5	27	26.1	-- ⁵
Worcester	76.7	39.9	40.9	304	49.9	9.8

¹ The 30 largest municipalities are the cities and towns in Massachusetts with the largest population according to 1996 population estimates. ² Does not include responses of "unknown" or "refused" in calculations. ³ Births per 1,000 residents. ⁴ Mothers who designated themselves as Asian or Other. ⁵ Calculations based on fewer than 5 events are excluded. ⁶ Deaths per 1,000 live births. ⁷ Calculations based on births with known adequacy scores. ⁸ Births per 1,000 female residents ages 15 to 19.

Table B-3B. Resident Birth Characteristics: Community Health Network Areas (CHNAs), Massachusetts: 1996

CHNA	Population	Crude Birth Rate ¹	Mother's Race and Ethnicity						Asian or Other ²	Very Low Birthweight (<1500 gms)	Low Birthweight (<2500 gms)
			White non-Hispanic	Black non-Hispanic	Hispanic	Hispanic	%	%			
STATE TOTAL	6,162,187	13.0	77.0	6.8	9.7	5.9	1.2	6.4			
Community Health Network of Berkshire (1)	134,810	10.3	93.3	2.5	1.9	1.9	0.9	7.7			
Upper Valley Health Web (Franklin County, 2)	87,984	10.2	93.8	0.9	2.3	2.1	0.9	4.7			
Hampshire County Partnership for Health (3)	152,497	8.6	87.4	1.8	4.4	5.9	0.6	5.2			
Greater Holyoke Area (3,21)	159,726	12.6	69.3	1.7	27.1	1.6	1.4	6.8			
Greater Springfield Community Health Network (4)	292,215	12.9	61.9	13.7	21.1	3.1	1.4	7.4			
Greater Southbridge Area (5)	113,744	11.7	90.6	0.4	6.6	1.9	1.3	6.5			
Community Partners for Health (Milford Area, 6)	144,248	15.5	96.1	0.3	1.8	1.6	1.1	5.2			
Greater Framingham (7)	346,283	15.5	87.4	2.0	5.4	5.1	0.8	5.3			
Community Wellness Coalition (Worcester Area, 8)	280,271	12.7	74.3	5.4	13.4	6.8	1.6	7.1			
Fitchburg/Gardner Area Community Health Network (9)	257,258	12.5	85.7	2.2	8.4	3.6	0.9	6.0			
Greater Lowell Community Health Network (10)	265,457	15.2	78.1	1.9	8.2	11.4	1.2	6.1			
Greater Lawrence Area (11)	167,500	15.7	58.6	1.7	34.6	4.3	1.3	6.3			
Greater Haverhill Area (12)	136,061	14.9	91.4	0.8	4.8	1.9	0.8	4.8			
Beverly/Gloucester Area (13)	111,291	12.8	91.1	0.4	1.5	2.1	1.0	4.8			
North Shore Community Health Network (14)	266,665	13.3	74.4	5.0	13.0	5.4	1.2	5.9			
Greater Woburn/Concord/Littleton Area (15)	195,428	13.2	89.4	1.2	1.5	7.4	0.8	5.6			
Medford/Malden/Melrose Area (16)	253,892	13.4	80.3	6.2	4.6	8.6	1.1	6.0			
Cambridge/Somerville Area (17)	281,018	11.3	69.2	10.0	9.4	10.7	1.0	6.6			
West Suburban Health Network (Newton/Waltham, 18)	250,035	11.9	84.9	2.8	5.4	6.7	1.0	5.7			
City of Boston/Chelsea/Revere/Winthrop (19)	729,803	13.3	40.2	28.2	20.7	9.5	1.7	8.5			
Blue Hills Community Health Alliance (Quincy Area, 20)	349,190	13.1	85.9	4.7	1.5	7.3	1.3	6.1			
Greater Brockton Community Health Network (22)	227,481	14.1	76.1	10.5	5.8	7.2	1.4	7.4			
South Shore Community Partners in Prevention (Greater Plymouth Area, 23)	172,263	13.9	97.0	0.8	0.8	1.3	0.9	4.8			
Greater Attleboro/Taunton Area (24)	227,873	15.0	92.3	1.8	3.0	2.4	1.1	6.1			
Partners for a Healthier Community (Fall River Area 25)	139,231	10.8	93.7	1.4	1.9	2.9	0.7	9.0			
Greater New Bedford Area (26)	198,080	10.9	81.6	3.4	8.4	5.9	0.7	6.3			
Cape and Islands Community Health Network (27)	221,883	10.3	90.5	2.2	2.4	4.2	1.3	5.9			

Table B-3B (cont'd). Resident Birth Characteristics: Community Health Network Areas, Massachusetts: 1996

CHNA	Births				Deaths ³	
	Adequate Prenatal Care % ⁴	Public Payment for Prenatal Care %	Unmarried %	Teen Mothers 15-19 years #	Infant <1 year Rate	Neonatal <28 days Rate
STATE TOTAL	80.2	24.2	25.3	5,758	32.6	5.0
Community Health Network of Berkshire (1)	76.0	29.7	29.6	118	28.0	5.0
Upper Valley Health Web (Franklin County, 2)	78.8	30.7	30.1	88	33.6	6.7
Hampshire County Partnership for Health (3)	82.4	20.1	21.6	81	9.9	-- ⁶
Greater Holyoke Area (3,21)	72.7	43.5	40.7	293	53.2	6.9
Greater Springfield Community Health Network (4)	72.4	42.1	41.6	553	57.4	5.1
Greater Southbridge Area (5)	81.8	22.2	27.8	143	41.5	5.2
Community Partners for Health (Milford Area, 6)	88.5	7.5	11.8	78	19.5	2.7
Greater Framingham (7)	89.0	10.1	11.5	140	18.7	3.2
Community Wellness Coalition (Worcester Area, 8)	79.7	27.8	29.6	344	38.4	8.4
Fitchburg/Gardner Area Community Health Network (9)	80.0	21.4	24.9	303	37.5	5.0
Greater Lowell Community Health Network (10)	75.8	24.7	25.9	299	39.9	4.5
Greater Lawrence Area (11)	64.9	35.9	36.2	333	57.8	4.2
Greater Haverhill Area (12)	81.2	18.1	19.4	108	32.2	2.5
Beverly/Gloucester Area (13)	86.0	12.3	13.5	54	16.1	9.8
North Shore Community Health Network (14)	82.5	27.8	27.8	237	35.7	6.8
Greater Woburn/Concord/Littleton Area (15)	84.1	7.2	6.9	32	7.2	1.9
Medford/Malden/Melrose Area (16)	81.6	17.0	16.2	111	19.3	5.3
Cambridge/Somerville Area (17)	81.1	20.9	18.6	133	19.9	5.7
West Suburban Health Network (Newton/Waltham, 18)	90.0	6.7	8.5	52	6.3	4.7
City of Boston/Chelsea/Revere/Winthrop (19)	75.7	41.8	42.5	936	44.5	6.4
Blue Hills Community Health Alliance (Quincy Area, 20)	85.6	11.5	13.9	133	17.9	3.7
Greater Brockton Community Health Network (22)	73.4	25.8	30.6	279	40.0	6.5
South Shore Community Partners in Prevention (Greater Plymouth Area, 23)	84.5	11.2	13.9	88	18.0	3.3
Greater Attleboro/Taunton Area (24)	83.6	16.6	20.0	222	32.9	4.1
Partners for a Healthier Community (Fall River Area 25)	79.4	38.5	36.8	180	42.8	5.3
Greater New Bedford Area (26)	78.3	40.8	38.5	291	42.6	3.7
Cape and Islands Community Health Network (27)	81.1	21.4	21.9	129	26.2	2.6

¹ Births per 1,000 residents. ² Mothers who designated themselves as Asian or Other. ³ Deaths per 1,000 live births. ⁴ Calculations based on births with known adequacy scores. ⁵ Births per 1,000 female residents ages 15 to 19. ⁶ Calculations based on fewer than 5 events are excluded.

Table B-4. Age-Specific and Crude Birth Rates, Massachusetts: 1995 and 1996

Mother's Age	1995		1996		Percent Change in Rate
	Births ¹	Rate ²	Births	Rate	
Under 15 ³	117	1.1	91	0.8	-27.3
15-19	5,990	33.0	5,758	32.6	-1.2
20-24	12,742	58.7	11,919	57.2	-2.6
25-29	22,346	84.9	21,496	82.6	-2.7
30-34	26,402	94.7	26,354	95.3	0.6
35-39	11,803	44.0	12,260	44.9	2.0
40-44	2,063	8.6	2,186	9.0	4.6
45-49	97	0.4	96	0.4	0.0
50+	0	0.0	2	-- ⁴	-- ⁴
Birth rate, ages 15-44 ⁵	81,346	56.3	79,973	55.6	-1.2
Crude Birth Rate ⁶	81,562	13.2	80,164	13.0	-1.5

¹ Differences in the number of births from previous publications are the result of updating of files. The number of births for all age groups does not always add to the total number of births as mother's age is sometimes not known.

² Population numbers used to calculate rates are listed in Section F. ³ Denominator is female population ages 12 to 14. ⁴ Rates are not calculated for age groups with less than 50 births. ⁵ Rate is Births per 1,000 females ages 15 to 44. ⁶ Births per 1,000 residents (females and males).

Figure B-4. Trends in the Number of Births by Mother's Age Group
Massachusetts: 1980, 1985, 1990-1996

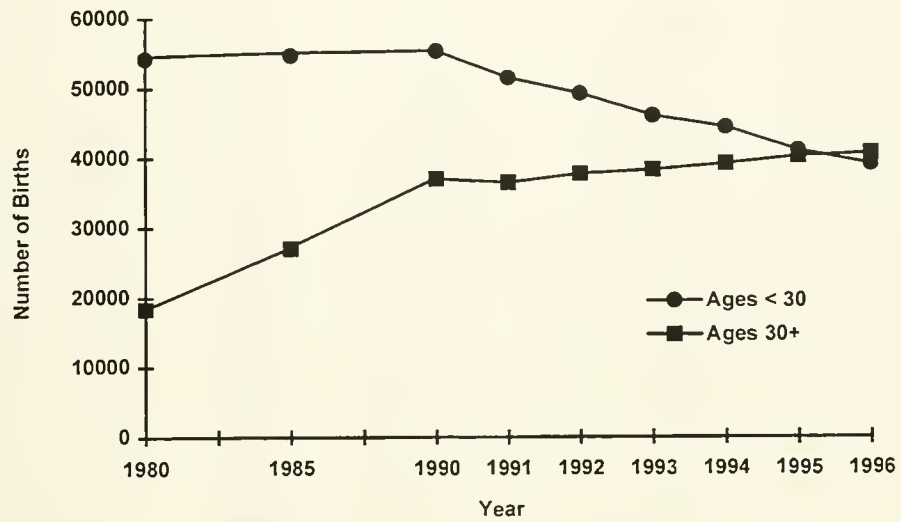


Table B-5. Parity by Age of Mother, Massachusetts: 1996¹

Age of Mother (years)		Total Births	1st	2nd	3rd	4th	5th+
STATE TOTAL	# ²	80,164	36,102	26,499	11,751	3,823	1,989
	% ³	100.0	45.0	33.1	14.7	4.8	2.5
10-14	#	91	90	1	0	0	0
	%	100.0	98.9	-- ⁴	0.0	0.0	0.0
15-19	#	5,758	4,709	871	150	26	2
	%	100.0	81.8	15.1	2.6	0.5	-- ⁴
20-24	#	11,919	6,457	3,655	1,298	383	126
	%	100.0	54.2	30.7	10.9	3.2	1.1
25-29	#	21,496	10,606	6,938	2,668	883	401
	%	100.0	49.3	32.3	12.4	4.1	1.9
30-34	#	26,354	9,883	9,905	4,572	1,325	669
	%	100.0	37.5	37.6	17.3	5.0	2.5
35-39	#	12,260	3,648	4,389	2,625	993	605
	%	100.0	29.8	35.8	21.4	8.1	4.9
40-44	#	2,186	673	720	424	202	167
	%	100.0	30.8	32.9	19.4	9.2	7.6
45+	#	98	35	20	13	11	19
	%	100.0	35.7	20.4	13.3	11.2	19.4

¹ The number of live births including this birth. ² Totals include births of unknown parity and unknown age. ³ Percents may not sum to 100.0 due to rounding. ⁴ Calculations based on fewer than five events are excluded.

Table B-6. Resident Births By Mother's Age, Marital Status and Race/Ethnicity, Massachusetts: 1996

Age of Mother	Marital Status	Total	White Non-Hispanic	Black Non-Hispanic	Hispanic	Asian	Other	Unknown
Grand Total		80,164 ¹	61,716	5,473	7,746	3,594	1,097	538
Total Married		59,896	50,706	2,210	3,093	2,942	587	358
Total Unmarried		20,253	10,998	3,262	4,653	652	509	179
< 15	Total	91	25	19	37	5	3	2
	Married	0	0	0	0	0	0	0
	Unmarried	91	25	19	37	5	3	2
15	Total	342	119	59	137	15	8	4
	Married	9	1	0	8	0	0	0
	Unmarried	333	118	59	129	15	8	4
16	Total	687	289	103	242	25	22	6
	Married	31	8	2	19	1	1	0
	Unmarried	656	281	101	223	24	21	6
17	Total	1,115	546	154	349	35	25	6
	Married	58	18	2	33	3	2	0
	Unmarried	1,057	528	152	316	32	23	6
18	Total	1,666	893	222	462	35	41	13
	Married	152	87	7	44	9	3	2
	Unmarried	1,513	805	215	418	26	38	11
19	Total	1,948	1,080	253	495	49	56	15
	Married	319	186	13	97	14	8	1
	Unmarried	1,629	894	240	398	35	48	14
20-24	Total	11,919	7,450	1,249	2,323	532	279	86
	Married	5,159	3,713	274	718	315	111	28
	Unmarried	6,756	3,734	975	1,605	217	167	58
25-29	Total	21,496	16,762	1,380	1,875	1,072	283	124
	Married	17,116	14,359	622	965	907	172	91
	Unmarried	4,375	2,399	757	910	165	111	33
30-34	Total	26,354	22,194	1,290	1,249	1,184	252	185
	Married	23,895	20,816	804	830	1,101	188	156
	Unmarried	2,455	1,375	486	419	83	64	28
35-39	Total	12,260	10,453	618	490	522	106	71
	Married	11,142	9,797	395	318	488	83	61
	Unmarried	1,118	656	223	172	34	23	10
40-44	Total	2,186	1,826	121	83	113	18	25
	Married	1,929	1,653	86	57	99	15	19
	Unmarried	256	172	35	26	14	3	6
≥ 45	Total	98	77	5	4	7	4	1
	Married	84	66	5	4	5	4	0
	Unmarried	14	11	0	0	2	0	1
Unknown	Total	2	2	0	0	0	0	0
	Married	2	2	0	0	0	0	0
	Unmarried	0	0	0	0	0	0	0

¹ Total includes 15 women with unknown marital status.

Table B-7. Resident Births to Teenage Mothers: 1970-1996

Year	Total Births	<u>Age of Mother</u>								Total 12-19	% of Total Births
		12	13	14	15	16	17	18	19		
1970	93,582	3	8	70	320	802	1,726	3,043	4,285	10,257	11.0
1971	86,755	3	23	84	313	875	1,738	2,981	4,000	10,017	11.5
1972	76,835	1	20	103	348	955	1,841	2,834	3,690	9,792	12.7
1973	72,237	0	12	93	393	959	1,759	2,584	3,282	9,082	12.6
1974	70,071	2	16	79	333	895	1,762	2,524	3,181	8,792	12.5
1975	68,070	2	18	84	325	915	1,678	2,560	3,085	8,667	12.7
1976	65,947	7	12	96	336	807	1,478	2,332	2,923	7,991	12.1
1977	67,838	1	18	68	270	792	1,477	2,293	2,913	7,832	11.5
1978	68,526	3	15	67	303	737	1,445	2,252	2,979	7,801	11.4
1979	70,568	2	9	70	283	773	1,413	2,306	2,916	7,772	11.0
1980	72,591	1	14	56	300	740	1,360	2,202	3,092	7,765	10.7
1981	73,931	1	12	82	275	722	1,357	2,164	2,816	7,429	10.0
1982	75,749	1	14	83	299	753	1,328	2,161	2,722	7,361	9.7
1983	76,031	0	8	78	255	726	1,278	2,053	2,521	6,919	9.1
1984	78,198	1	8	75	265	714	1,307	2,061	2,585	7,016	9.0
1985	81,776	4	12	97	295	698	1,283	1,986	2,595	6,970	8.5
1986	82,163	0	15	82	334	712	1,233	1,954	2,521	6,851	8.3
1987	84,343	2	15	79	327	796	1,337	1,965	2,498	7,019	8.3
1988	88,047	0	27	120	352	732	1,450	2,068	2,511	7,260	8.2
1989	91,314	0	19	108	345	853	1,426	2,207	2,776	7,734	8.5
1990	92,461	3	18	103	351	810	1,344	2,014	2,739	7,382	8.0
1991	88,176	2	18	102	372	758	1,391	1,910	2,461	7,014	7.9
1992	87,202	3	14	103	341	782	1,327	1,753	2,352	6,675	7.6
1993	84,627	1	15	121	360	741	1,259	1,872	2,237	6,606	7.8
1994	83,758	3	21	131	371	822	1,244	1,758	2,217	6,567	7.8
1995	81,562	1	18	98	356	721	1,203	1,648	2,062	6,107	7.5
1996	80,164	0	11	80	342	687	1,115	1,666	1,948	5,849	7.3

Table B-8. Births by Birthweight, Race, and Hispanic Ethnicity, Massachusetts: 1996

Birthweight	Total		White non-Hispanic		Black non-Hispanic		Hispanic		Asian		Other		Unknown	
	#	% ¹	#	%	#	%	#	%	#	%	#	%	#	%
STATE TOTAL	80,164	100.0	61,716	100.0	5,473	100.0	7,746	100.0	3,594	100.0	1,097	100.0	538	100.0
<500	94	0.1	61	0.1	19	0.3	10	0.1	3	-- ²	1	-- ²	0	0.0
500-999	369	0.5	240	0.4	75	1.4	42	0.5	9	0.3	2	-- ²	1	-- ²
1000-1499	466	0.6	308	0.5	71	1.3	50	0.6	23	0.6	12	1.1	2	-- ²
1500-1999	1,042	1.3	754	1.2	106	1.9	120	1.5	42	1.2	19	1.7	1	-- ²
2000-2499	3,134	3.9	2,165	3.5	363	6.6	388	5.0	160	4.5	54	4.9	4	-- ²
2500-2999	11,320	14.1	7,853	12.7	1,075	19.6	1,411	18.2	769	21.4	191	17.4	21	3.9
3000-3499	28,097	35.0	21,147	34.3	2,000	36.5	3,040	39.2	1,466	40.8	415	37.8	29	5.4
3500-3999	25,172	31.4	20,628	33.4	1,296	23.7	2,019	26.1	906	25.2	294	26.8	29	5.4
4000-4499	8,185	10.2	6,994	11.3	371	6.8	539	7.0	184	5.1	89	8.1	8	1.5
4500-4999	1,429	1.8	1,253	2.0	59	1.1	85	1.1	20	0.6	12	1.1	0	0.0
>=5000	147	0.2	126	0.2	6	0.1	6	0.1	4	-- ²	4	-- ²	1	-- ²
Unknown	709	0.9	187	0.3	32	0.6	36	0.5	8	0.2	4	-- ²	442	82.2
VLBW ³ (0-1499 gms)	929	1.2	609	1.0	165	3.0	102	1.3	35	1.0	15	1.4	3	-- ²
LBW ⁴ (0-2499 gms)	5,105	6.4	3,528	5.7	634	11.6	610	7.9	237	6.6	88	8.0	8	1.5

¹ Percentages are based on column totals. ² Calculations based on fewer than five events are excluded. ³ VLBW: Very Low Birthweight. ⁴ LBW: Low Birthweight.

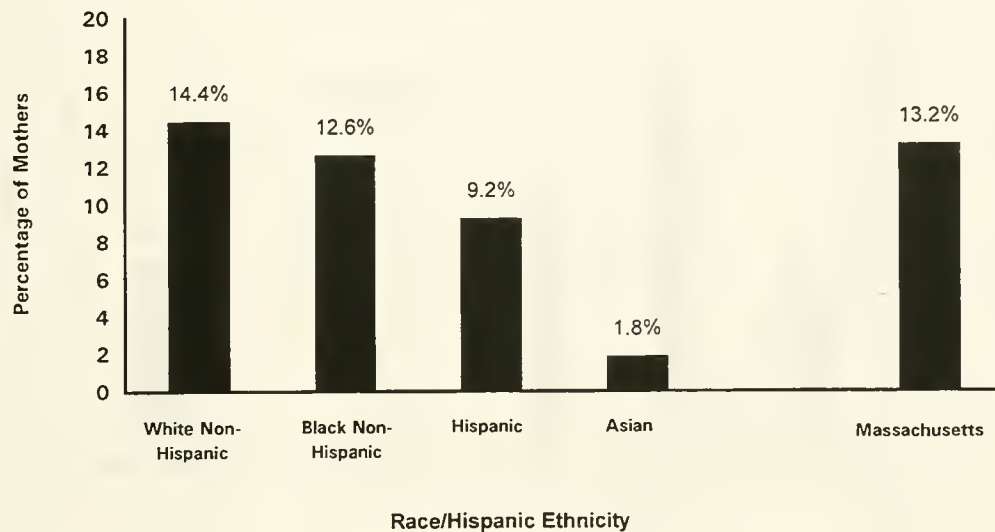
Table B-9. Low Birthweight¹ by Maternal Age, Race, and Hispanic Ethnicity, Massachusetts: 1996

Mother's Age	Total LBW Infants # ²	% ³	White non-Hispanic #	%	Black non-Hispanic #	%	Hispanic #	%	Asian #	%	Other #	%	Unknown #	%
STATE	5,105	6.4	3,528	5.7	634	11.6	610	7.9	237	6.6	88	8.0	8	2.0
<18	231	10.3	77	7.9	52	15.5	82	10.7	11	13.8	9	15.5	0	0.0
18-19	316	8.7	131	6.6	68	14.3	102	10.7	8	9.5	7	7.2	0	0.0
20-24	733	6.1	397	5.3	109	8.7	162	7.0	50	9.4	15	5.4	0	0.0
25-29	1,213	5.6	863	5.1	164	11.9	113	6.0	56	5.2	15	5.3	2	-- ⁴
30-34	1,499	5.7	1,168	5.3	135	10.5	95	7.6	69	5.8	30	11.9	2	-- ⁴
35-39	915	7.5	735	7.0	85	13.8	50	10.2	33	6.3	9	8.5	3	-- ⁴
40+	198	8.7	157	8.3	21	16.7	6	6.9	10	8.3	3	-- ⁴	1	-- ⁴

¹ Low Birthweight: An infant weighing < 2,500 grams or 5.5 pounds at birth. ² Column subgroups may not equal total because there were birth certificates that did not include mother's age. ³ Percentages are based upon the number of low birthweight infants divided by the total births in each age and race/ethnicity category. ⁴ Calculations based on fewer than five events are excluded.

NOTE: The relation between mother's age and low birthweight is influenced by other factors, such as nutrition, education and prenatal care. For example, mothers under the age of 18 also have a lower percentage of adequate prenatal care.

**Figure B-5. Smoking Prevalence^{1,2} During Pregnancy
by Race and Hispanic Ethnicity, Massachusetts: 1996**

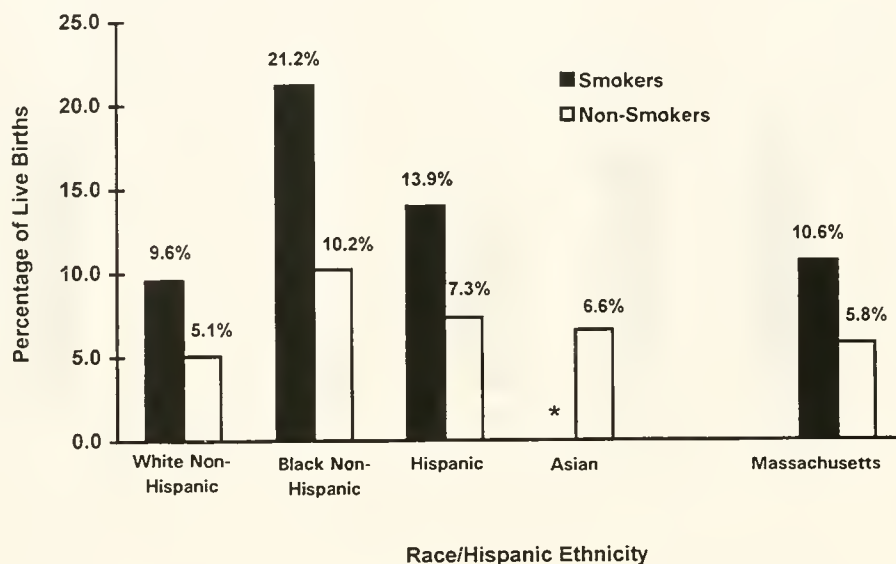


¹ Based on information provided on the birth certificate by mother. Mothers who have more than one delivery are counted for each birth.

² Martha's Vineyard Hospital, with 117 total births, is not included in the calculation of smoking prevalence because there was a high percent of records for which data on tobacco use was missing.

Note: Maternal smoking is self-reported by mothers, usually following the birth of their child; these data should be interpreted cautiously.

Figure B-6. Low Birthweight^{1,2,3} among Smoking and Nonsmoking Mothers by Race and Hispanic Ethnicity, Massachusetts: 1996



¹ Low Birthweight = less than 2,500 grams or 5.5 pounds.

² Based on information provided on the birth certificate by mother.

³ Martha's Vineyard Hospital, with 117 total births, is not included in the calculation of smoking prevalence because there was a high percent of records for which data on tobacco use was missing.

* Percentage not calculated due to small numbers.

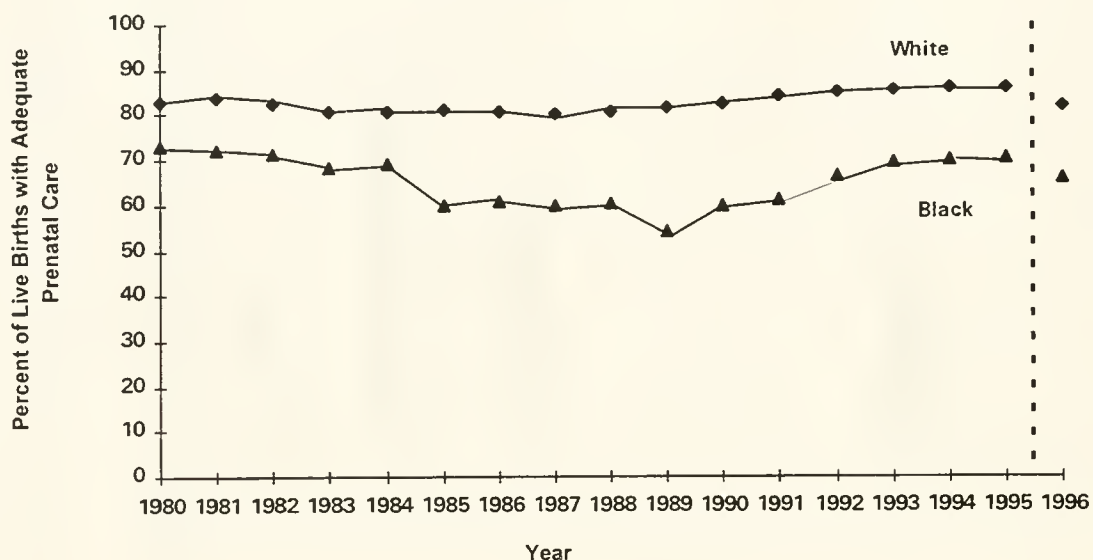
Note: Maternal smoking is self-reported by mothers, usually following the birth of their child; these data should be interpreted cautiously.

Table B-10. Births by Gestational Age¹, Race, and Hispanic Ethnicity, Massachusetts: 1996

Gestational Age (weeks completed)	Total #	% ²	White non-Hispanic #	%	Black non-Hispanic #	%	Hispanic #	%	Asian #	%	Other #	%	Unknown #	%
STATE TOTAL	80,164	100.0	61,716	100.0	5,473	100.0	7,746	100.0	3,594	100.0	1,097	100.0	538	100.0
<20	21	0.0	12	0.0	4	-- ³	4	-- ³	1	-- ³	0	0.0	0	0.0
20-23	121	0.2	71	0.1	26	0.5	17	0.2	6	0.2	0	0.0	1	-- ³
24-27	279	0.3	191	0.3	55	1.0	23	0.3	4	-- ³	6	0.5	0	0.0
<28	421	0.5	274	0.4	85	1.6	44	0.6	11	0.3	6	0.5	1	-- ³
28-31	598	0.7	384	0.6	101	1.8	77	1.0	26	0.7	7	0.6	3	-- ³
32-35	2,548	3.2	1,837	3.0	240	4.4	317	4.1	106	2.9	42	3.8	6	1.1
36	2,131	2.7	1,525	2.5	193	3.5	279	3.6	93	2.6	39	3.6	2	-- ³
<37 ⁴	5,698	7.1	4,020	6.5	619	11.3	717	9.3	236	6.6	94	8.6	12	2.2
37-39 ⁵	26,993	33.7	20,101	32.6	2,105	38.5	2,904	37.5	1,481	41.2	373	34.0	29	5.4
40	31,647	39.5	25,269	40.9	1,810	33.1	2,713	35.0	1,385	38.5	427	38.9	43	8.0
41	11,205	14.0	9,010	14.6	671	12.3	1,021	13.2	361	10.0	136	12.4	6	1.1
42	3,035	3.8	2,467	4.0	180	3.3	261	3.4	82	2.3	43	3.9	2	-- ³
43	312	0.4	231	0.4	25	0.5	28	0.4	17	0.5	8	0.7	3	-- ³
44+	154	0.2	101	0.2	19	0.3	27	0.3	5	0.1	2	-- ³	0	0.0
Unknown ⁶	1,120	1.4	517	0.8	44	0.8	75	1.0	27	0.8	14	1.3	443	82.3

¹ A clinical estimate of the number of weeks of pregnancy completed; as estimated by the attendant at birth or the postnatal physician. ² Percentages are based on column total. ³ Calculations based on fewer than five events are excluded. ⁴ Also known as early gestational age, premature delivery, or preterm delivery. ⁵ Normal gestational age is defined as 37-42 weeks. ⁶ Estimate not provided.

**Figure B-7. Trends in Adequacy of Prenatal Care^{1, 2} by Race³
Massachusetts: 1980-1996**



¹ Calculations are based on births with known adequacy of prenatal care scores.

² Due to changes, beginning in 1996, in the collection of information on Adequacy of Prenatal Care, caution should be used when comparing these data over time.

³ On tables and graphs which include data previous to June 1986, the race classifications do not include ethnicity; most Hispanics are included in the race category of whites.

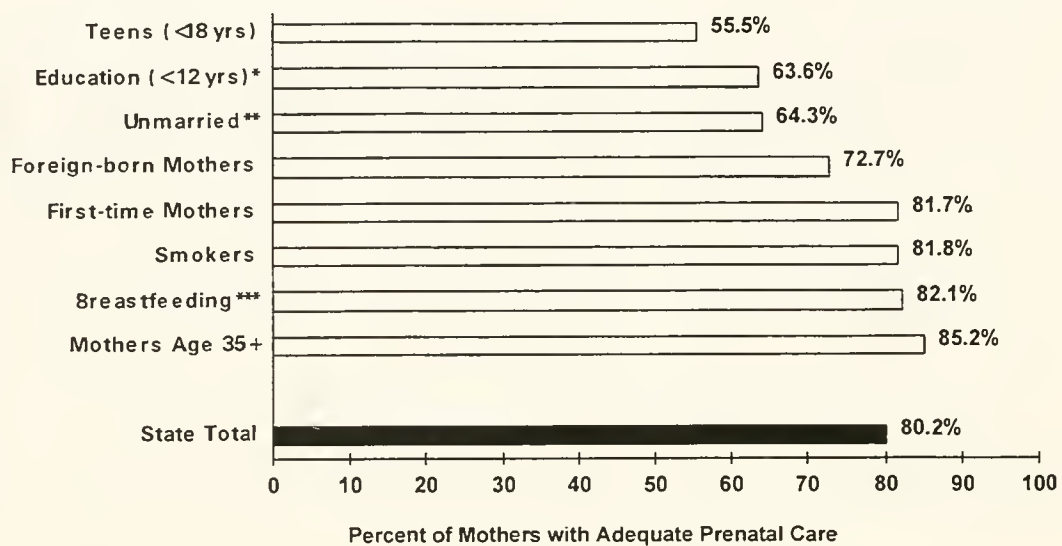
Table B-11. Low Birthweight by Level of Prenatal Care, Race and Hispanic Ethnicity, Massachusetts: 1996

Race and Ethnicity Birthweight		Level of Prenatal Care ²			
		Total ¹	Adequate	Intermediate	Late/None
STATE TOTAL	Total	77,945	62,547	12,993	2,405
LBW³	#	4,878	3,716	919	243
	%	6.3	5.9	7.1	10.1
White non-Hispanic	Total	60,503	50,779	8,549	1,175
LBW³	#	3,374	2,718	550	106
	%	5.6	5.4	6.4	9.0
Black non-Hispanic	Total	5,318	3,532	1,315	471
LBW³	#	610	407	139	64
	%	11.5	11.5	10.6	13.6
Hispanic	Total	7,473	4,923	2,016	534
LBW³	#	580	369	154	57
	%	7.8	7.5	7.6	10.7
Asian	Total	3,515	2,552	807	156
LBW³	#	228	165	52	11
	%	6.5	6.5	6.4	7.1
Other/Unknown	Total	1,136	761	306	69
LBW³	#	86	57	24	5
	%	7.6	7.5	7.8	7.2

¹ All data are based on the 77,945 births with known adequacy of care data. ² Detailed explanation of the levels of prenatal care is presented in the opening narrative of this section.

³ Low birthweight: <2,500 grams or 5.5 pounds.

**Figure B-8. Adequacy of Prenatal Care¹ for Selected Population Characteristics
Massachusetts: 1996**



¹ Calculations are based on births with known adequacy of prenatal care scores.

* Women 20 years of age and older.

** "Unmarried" pertains to marital status at time of conception.

*** Mother was or was intending to breastfeed at the time the birth certificate was completed.

Table B-12. Birth Characteristics by Prenatal Care Payment Source, Race and Hispanic Ethnicity, Massachusetts: 1996

Race and Ethnicity	Births ¹		Teen Births		Very Low ²		Low ³	
	#	%	#	%	#	%	#	%
Payment Source								
STATE TOTALS: BIRTHS ⁴	80,164	100.0	2,235	2.8	5,849	7.3	929	1.2
Public	19,448	24.3	1,525	7.8	4,042	20.8	259	1.3
Medicaid	16,640	20.8	1,436	8.6	3,792	22.8	231	1.4
Other Public ⁵	2,808	3.5	89	3.2	250	9.1	28	1.0
Private ⁶	54,539	68.0	557	1.0	1,420	2.6	531	1.0
WHITE NON-HISPANIC	61,716	100.0	979	1.6	2,952	4.8	609	1.0
Public	9,748	15.8	533	5.5	1,754	18.0	92	0.9
Medicaid	8,736	14.2	512	5.9	1,686	19.3	89	1.0
Other Public	1,012	1.6	21	2.1	68	6.7	3	-- ⁷
Private	47,519	77.0	382	0.8	1,023	2.2	418	0.9
BLACK NON-HISPANIC	5,473	100.0	335	6.1	810	14.8	165	3.0
Public	2,881	52.6	248	8.6	587	20.4	75	2.6
Medicaid	2,424	44.3	227	9.4	541	22.3	65	2.7
Other Public	457	8.4	21	4.6	46	10.1	10	2.2
Private	2,153	39.3	70	3.3	167	7.8	64	3.0
HISPANIC	7,746	100.0	765	9.9	1,722	22.2	102	1.3
Public	5,231	67.5	638	12.2	1,458	27.9	72	1.4
Medicaid	4,189	54.1	598	14.3	1,340	32.0	64	1.5
Other Public	1,042	13.5	40	3.8	118	11.3	8	0.8
Private	2,019	26.1	77	3.8	167	8.3	23	1.1
ASIAN	3,594	100.0	80	2.2	164	4.6	35	1.0
Public	989	27.5	66	6.7	127	12.8	10	1.0
Medicaid	871	24.2	62	7.1	119	13.7	8	0.9
Other Public	118	3.3	4	-- ⁷	8	6.8	2	-- ⁷
Private	2,331	64.9	12	0.5	31	1.3	20	0.9
OTHER ⁸	1,097	100.0	58	5.3	155	14.1	15	1.4
Public	536	48.9	39	7.3	113	21.1	9	1.7
Medicaid	415	37.8	36	8.7	103	24.8	5	1.2
Other Public	121	11.0	3	-- ⁷	10	8.3	4	-- ⁷
Private	459	41.8	16	3.5	32	7.0	5	1.1

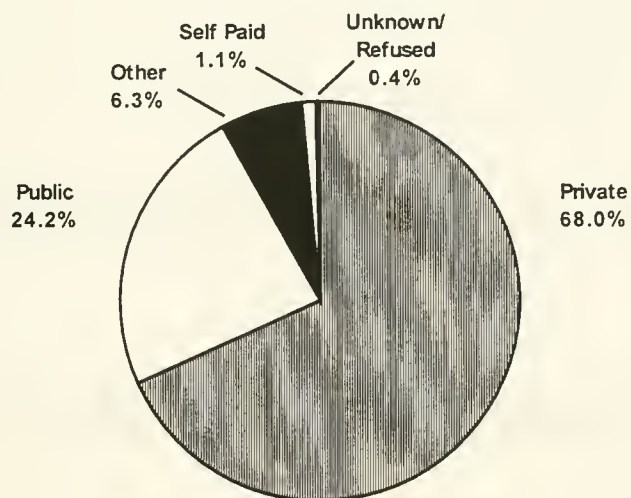
¹ In the first category "Births", percentages are based on race/ethnicity totals. For all other categories, percentages are based on Birth totals. ² Very low birthweight. <1,500 grams or 3.3 pounds. ³ Low Birthweight: < 2,500 grams or 5.5 pounds. ⁴ Total births does not equal Public + Private. Other categories of prenatal care payment are also included in Total: Workers' Compensation, self-paid, and other. ⁵ Other Public: Healthy Start, Medicaid, other government programs, and free care. ⁶ Private: Blue Cross/Blue Shield, commercial insurance, and HMO. ⁷ Calculations based on fewer than five events are excluded. ⁸ Other: Mothers who self-designated other races. Data for mothers of Unknown race are included in State totals.

Table B-12. (cont'd) Birth Characteristics By Prenatal Care Payment, Race, and Hispanic Ethnicity, Massachusetts: 1996

Payment source	Prenatal Care				Caesarean Section		Breastfeeding ^a	
	Adequate #	%	Began in 1st Trimester #	%	#	%	#	%
STATE TOTALS: BIRTHS	62,547	80.2	65,987	83.9	15,632	19.7	51,058	66.4
Public	11,909	63.0	12,971	67.9	3,322	17.2	9,982	51.8
Medicaid	10,247	63.2	11,170	66.3	2,816	17.0	7,912	47.8
Other Public	1,662	61.8	1,801	66.6	506	18.5	2,070	75.7
Private	46,184	86.1	48,383	89.4	11,568	21.3	38,917	71.6
WHITE NON-HISPANIC	50,779	83.9	53,331	87.3	12,378	20.1	39,690	66.8
Public	6,414	67.4	6,886	71.5	1,740	17.9	4,474	46.0
Medicaid	5,727	67.2	6,149	71.2	1,533	17.6	3,750	43.1
Other Public	687	69.1	737	73.8	207	20.5	724	71.8
Private	40,774	87.1	42,681	90.4	10,094	21.3	33,655	71.0
BLACK NON-HISPANIC	3,532	66.4	3,822	71.2	1,105	20.3	3,397	64.9
Public	1,567	55.6	1,751	61.7	525	18.3	1,615	56.6
Medicaid	1,350	57.0	1,508	63.2	446	18.5	1,277	53.3
Other Public	217	48.3	243	53.8	79	17.3	338	74.0
Private	1,674	79.8	1,757	82.8	524	24.5	1,628	76.2
HISPANIC	4,923	65.9	5,373	71.1	1,334	17.3	5,060	67.0
Public	3,091	61.0	3,421	66.9	830	15.9	3,237	62.4
Medicaid	2,479	61.1	2,752	67.2	661	15.9	2,405	57.9
Other Public	612	60.6	669	65.5	169	16.3	832	80.5
Private	1,540	78.3	1,627	81.8	438	21.8	1,570	78.3
ASIAN	2,552	72.6	2,699	76.2	567	15.8	2,144	61.6
Public	535	55.2	576	59.0	126	12.7	354	35.8
Medicaid	467	54.7	506	58.8	97	11.1	262	30.1
Other Public	68	58.6	70	60.3	29	24.6	92	78.6
Private	1,809	78.9	1,904	82.6	389	16.7	1,670	72.0
OTHER	696	65.7	762	70.8	230	21.1	715	66.6
Public	298	57.9	333	62.8	101	19.0	301	56.4
Medicaid	220	55.6	251	61.1	79	19.1	217	52.3
Other Public	78	65.5	82	68.9	22	18.5	84	70.6
Private	344	76.1	370	81.5	110	24.0	357	77.9

^a Mother was intending to breastfeed at the time the birth certificate was completed.

Figure B-9. Percentage Distribution of Prenatal Care Payment Source^{1,2}
Massachusetts: 1996



¹ The source of payment for prenatal care is a self-reported item on the birth certificate. Private: Blue Cross/Blue Shield, commercial insurance and health maintenance organizations. Public: Medicaid, Medicare, Healthy Start, free care and other government sources. Healthy Start is a Massachusetts-funded program providing services and financing for prenatal care to low-income women. Other: Worker's Compensation and other sources.

² Changes in data collection beginning with 1996 data will allow more detailed analyses of the information on payor source for future publications.

Table B-13. Occurrence and Caesarean Births by Licensed Maternity Facility, Massachusetts: 1996^{1,2}

Facility	Location	Birth Characteristics				Caesarean Sections ³			
		Occurrence Births	Low Birthweight	Public Payment for Delivery ⁴	Adequate Prenatal Care	Total	% ⁵ Primary	Repeat	
STATE TOTAL ^{6,7}		81,147	6.3	24.3	80.1	16,048	20.0	10,381	5,667
Anna Jaques Hospital	Newburyport	810	3.7	12.5	81.2	137	16.9	84	53
Baystate Medical Center	Springfield	5,183	9.1	39.5	72.7	1,052	20.4	666	386
Berkshire Medical Center	Pittsfield	980	5.6	27.4	72.2	192	19.6	110	82
Beth Israel Hospital	Boston	5,132	8.5	18.2	80.2	1,179	23.1	834	345
Beverly Hospital	Beverly	2,768	3.6	16.6	83.1	477	18.4	297	180
Boston Medical Center	Boston	1,544	8.7	88.4	46.2	270	18.5	180	90
Boston Regional Med Ctr	Stoneham	1,251	2.3	6.7	80.3	292	23.3	185	107
Brigham And Women's Hosp	Boston	8,483	10.7	14.9	93.0	1,735	20.7	1,174	561
Brockton Hospital	Brockton	1,026	4.7	32.4	67.0	194	18.9	121	73
Cambridge Hospital	Cambridge	600	3.7	74.6	54.9	117	19.5	78	39
Cape Cod Hospital	Barnstable	1,018	3.8	18.3	81.6	243	23.9	145	98
Charlton Memorial Hospital	Fall River	1,659	7.7	36.2	80.3	289	17.5	182	107
Cooley Dickinson Hospital	Northampton	949	3.1	17.8	85.7	174	18.4	107	67
Deaconess/Waltham Hosp*	Waltham	310	3.9	35.2	79.1	38	12.4	19	19
Emerson Hospital	Concord	1,508	2.7	7.3	83.7	323	21.4	188	135
Fairview Hospital	Great Barrington	161	5.0	32.9	78.0	40	24.8	26	14
Falmouth Hospital	Falmouth	657	3.3	31.4	79.2	112	17.2	74	38
Franklin Medical Center	Greenfield	574	1.4	37.5	78.6	80	14.1	48	32
Good Samaritan Med Ctr**	Brockton	1,316	5.1	37.2	66.0	241	18.3	153	88
Hale Hospital	Haverhill	596	2.9	41.3	76.4	104	17.4	70	34
Harrington Memorial Hosp	Southbridge	418	4.3	38.5	80.1	85	20.4	56	29
Heywood Hospital	Gardner	415	3.1	33.7	73.8	87	21.0	50	37
Holy Family Hospital and Medical Center	Methuen	1,011	3.5	23.4	78.2	224	22.2	128	96

* Waltham Weston Hospital became Deaconess/Waltham Hospital on April 14, 1995. ** Good Samaritan Medical Center moved maternity services from Stoughton to Brockton in September 1995.

Table B-13. (cont'd) Occurrence and Caesarean Births by Licensed Maternity Facility, Massachusetts: 1996^{1,2}

Facility	Location	Occurrence Births	Birth Characteristics			Adequate Prenatal Care	Caesarean Sections	
			Low Birthweight	Public Payment for Delivery	Total	%	Primary	Repeat
Holyoke Hospital	Holyoke	274	2.2	42.1	71.6	58	21.3	31
Jordan Hospital	Plymouth	775	3.0	24.3	74.2	194	25.0	106
Lawrence General Hospital	Lawrence	1,538	4.6	44.9	47.7	282	18.5	148
Leominster Hospital	Leominster	1,719	3.8	26.6	77.2	341	19.9	213
Lowell General Hospital	Lowell	2,314	4.7	33.0	72.7	382	16.6	237
Malden Hospital	Malden	471	4.0	49.1	67.0	106	22.6	63
Martha's Vineyard Hospital	Oak Bluffs	117	2.6	21.4	84.5	18	15.4	10
Mary Lane Hospital	Ware	248	2.8	35.9	77.6	71	28.6	44
Massachusetts General Hosp Boston	Boston	1,668	12.5	30.8	68.8	389	23.6	301
Melrose-Wakefield Hospital	Melrose	1,339	3.0	14.1	84.1	236	17.7	131
Memorial Hospital	Worcester	3,732	10.4	26.8	83.9	591	16.3	389
Mercy Hospital*	Springfield	142	3.5	47.2	71.7	28	19.7	24
Metrowest Medical Center - Framingham Union Campus	Framingham	2,430	4.2	14.0	90.4	461	19.0	318
Metrowest Medical Ctr.- Leonard Morse Campus**	Natick	341	0.3	8.5	85.2	65	19.1	28
Milford-Whitinsville Regional Hospital	Milford	458	2.6	15.5	82.3	118	26.0	81
Morton Hospital	Taunton	673	5.2	35.1	78.0	178	26.4	104
Mount Auburn Hospital	Cambridge	1,104	4.4	7.4	84.2	202	18.3	146
Nantucket Cottage Hospital	Nantucket	63	1.6	6.5	86.9	8	12.9	5
New England Medical Center	Boston	1,623	20.3	31.7	87.5	389	26.2	279
Newton Wellesley Hospital	Newton	4,316	3.3	1.4	91.5	789	18.3	564
North Adams Regional Hosp	North Adams	358	5.3	31.8	84.5	76	21.2	48

* Mercy Hospital, Springfield, opened for births on August 2, 1996. ** Metrowest Medical Center - Leonard Morse, Natick, closed for births on September 30, 1996.

Table B-13. (cont'd) Occurrence and Caesarean Births by Licensed Maternity Facility, Massachusetts: 1996^{1,2}

Facility	Location	Occurrence Births	Birth Characteristics			Adequate Prenatal Care	Caesarean Sections		
			Low Birthweight	Public Payment for Delivery			Total	%	Primary Repeat
North Shore Birth Center	Beverly	108	0.0	0.9		68.6	0	0.0	0
North Shore Medical Center	Salem	1,759	4.2	32.6		87.0	398	22.6	251
Norwood Hospital	Norwood	1,105	3.7	11.4		88.9	249	22.5	154
Providence Hospital*	Holyoke	612	2.3	52.3		74.1	87	14.5	58
Quincy Hospital	Quincy	814	4.1	29.9		83.4	216	26.7	138
Saint Vincent Hospital	Worcester	2,117	4.3	17.7		75.2	312	14.8	211
Saints Memorial Med Ctr	Lowell	448	7.1	34.7		72.7	79	17.7	53
South Shore Hospital	Weymouth	3,108	4.0	3.4		83.1	620	19.9	412
St. Elizabeth's Med Ctr	Boston	1,685	10.0	33.7		86.9	412	24.5	251
St. Luke's Hospital	New Bedford	1,574	5.4	47.9		76.5	299	19.2	177
Sturdy Memorial Hospital	Attleboro	779	3.7	25.4		80.4	124	16.0	71
The Birthplace at Wellesley**	Wellesley	45	2.2	4.4		63.6	0	0.0	0
Tobey Hospital	Wareham	421	2.4	35.2		80.0	75	17.9	57
Winchester Hospital	Winchester	2,267	3.5	6.1		78.0	508	22.4	302
All other hospitals		8	25.0	42.9		50.0	2	--	1
Home, enroute, other		225	13.8	26.6		55.6	0	0.0	0

¹ See Section B narrative for definitions of occurrence and Caesarean births, primary and repeat. ² A licensed maternity facility is a medical unit licensed by the Commonwealth for the care of women during pregnancy and childbirth. ³ The percentage of Caesarean births reported is not adjusted for risk factors such as mother's age, birthweight, or complications of labor and delivery, which would influence the number of procedures in a particular facility. Caution should be used when comparing unadjusted percentages. ⁴ Public payment for delivery includes Medicaid/Commonwealth, Medicare, Healthy Start, other government programs, and free care. ⁵ Percentages calculated on births with known method of delivery. ⁶ The percentages provided in this row are based on occurrence births and may differ from data presented elsewhere in this publication which are based on resident births. ⁷ For percentage calculations, denominators exclude unknown values.

* Providence Hospital, Holyoke, closed for births on September 28, 1996. ** The Birthplace at Wellesley opened in December 1995.

Table B-13A. Percentage of Missing Data by Facility, Occurrence Births, Massachusetts: 1996¹

Facility Name	Number of births	Percentage of Unknown											
		Birth-weight	Tobacco Use	Prenatal Care Payment	Method of Delivery	Mother's Education	Month Prenatal Care Began	Adequacy of care	Gestational Age	Breast-feeding	Delivery Method of Payment	Mother's Race	Mother's Ancestry
Beth Israel Hospital	5,132									3.9%			
Beverly Hospital	2,768	6.8%	6.3%		6.5%	6.3%	6.5%	6.6%	6.5%	9.5%		6.3%	6.3%
Boston Medical Center	1,544	5.4%	5.0%	5.4%	5.5%	6.2%	5.8%	6.0%	5.5%	5.3%	5.3%	4.8%	4.8%
Brigham And Women's Hospital	8,482						3.3%	4.8%		9.6%			
Franklin Medical Center	574						3.8%	4.5%					
Lawrence General Hospital	1,539						4.8%	6.8%					
Malden Hospital	471							6.8%	5.9%				
Massachusetts General Hospital	1,668						8.1%	10.3%		5.1%			
Metrowest Med Ctr.- Leonard Morse Campus ²	341						3.5%	4.7%					
New England Medical Center Hospital	1,623	11.0%	7.6%	8.1%	8.5%	8.0%	10.2%	12.6%	10.0%	8.6%	8.3%	7.2%	7.8%
Quincy Hospital	814						4.8%	5.4%					
Saints Memorial Med Ctr.-St. John's Campus	448		5.1%										
St. Luke's Hospital	1,574						3.7%	12.5%	9.0%				
Sturdy Memorial Hospital	779							25.6%	24.0%				
Memorial Hospital	3,732				3.0%								
Deaconess/Waltham Hospital	310						9.0%	10.7%	3.6%				
Statewide - Facilities with maternity wards	79,084	0.8%	0.9%	0.4%	1.0%	0.8%	1.7%	2.7%	1.4%	0.8%	0.5%	0.6%	0.7%

¹ This table includes information only for maternity facilities with at least 300 births per year and at least 3% unknown values for variables which were used in this publication. ² Metrowest Medical Center - Leonard Morse, Natick, closed for births on September 30, 1996.

**Table B-14A. Birth Characteristics: Occurrence and Resident Births and Infant Deaths,
Massachusetts Municipalities, 1996**

Community	Occurrence Births	Resident Births	Low Birthweight	Teen Births, < 20 years	Infant Deaths	Neonatal Deaths
Abington	1	282	25	17	5	4
Acton	3	276	13	2	0	0
Acushnet	0	89	5	10	0	0
Adams	0	92	9	6	0	0
Agawam	0	337	25	23	3	3
Alford	0	2	0	0	0	0
Amesbury	1	242	6	13	0	0
Amherst	1	189	7	12	0	0
Andover	0	368	19	4	1	1
Arlington	2	545	38	4	7	6
Ashburnham	0	50	-- ¹	4	0	0
Ashby	0	30	0	5	0	0
Ashfield	0	15	-- ¹	0	0	0
Ashland	0	228	12	5	1	1
Athol	0	145	10	23	0	0
Attleboro	780	596	53	39	5	4
Auburn	0	164	9	1	2	2
Avon	0	55	-- ¹	2	0	0
Ayer	0	114	13	10	0	0
Barnstable	1,020	499	24	27	0	0
Barre	0	56	-- ¹	2	0	0
Becket	1	20	0	2	1	1
Bedford	1	244	23	5	0	0
Belchertown	2	151	6	4	0	0
Bellingham	0	212	10	7	1	1
Belmont	1	284	13	5	0	0
Berkley	0	85	5	4	0	0
Berlin	0	28	0	1	0	0
Bernardston	0	11	0	2	0	0
Beverly	2,877	491	27	16	9	6
Billerica	0	573	28	26	1	1
Blackstone	0	94	6	3	0	0
Blandford	0	11	0	0	0	0
Bolton	0	57	6	1	0	0
Boston	20,162	7,717	681	806	56	35
Bourne	2	224	7	18	0	0
Boxborough	0	73	-- ¹	0	0	0
Boxford	0	105	-- ¹	0	0	0
Boylston	0	46	0	0	0	0
Braintree	0	451	34	12	0	0
Brewster	1	73	-- ¹	2	0	0
Bridgewater	0	272	15	12	0	0
Brimfield	2	33	5	5	0	0

Community	Occurrence Births	Resident Births	Low Birthweight	Teen Births, < 20 years	Infant Deaths	Neonatal Deaths
Brockton	2,346	1,409	132	214	11	7
Brookfield	0	23	-- ¹	3	0	0
Brookline	4	608	33	9	0	0
Buckland	0	17	-- ¹	1	0	0
Burlington	0	303	16	2	0	0
Cambridge	1,707	965	55	46	3	3
Canton	0	253	14	4	0	0
Carlisle	0	55	6	0	1	1
Carver	1	130	8	4	1	1
Charlemont	1	12	0	2	0	0
Charlton	1	150	6	11	0	0
Chatham	0	35	-- ¹	4	0	0
Chelmsford	2	457	19	7	0	0
Chelsea	1	611	51	92	2	2
Cheshire	0	35	-- ¹	3	0	0
Chester	0	11	-- ¹	0	0	0
Chesterfield	1	18	0	1	0	0
Chicopee	1	599	44	65	4	3
Chilmark	1	8	0	0	0	0
Clarksburg	0	14	0	0	0	0
Clinton	0	164	11	15	2	1
Cohasset	0	91	-- ¹	2	0	0
Colrain	0	19	-- ¹	1	0	0
Concord	1,508	165	8	0	0	0
Conway	0	13	-- ¹	1	0	0
Cummingtown	0	5	0	1	0	0
Dalton	0	70	5	4	0	0
Danvers	1	266	8	2	2	1
Dartmouth	0	233	8	16	0	0
Dedham	0	289	12	7	1	1
Deerfield	1	51	-- ¹	2	0	0
Dennis	0	109	6	9	0	0
Dighton	0	61	-- ¹	4	0	0
Douglas	0	99	5	6	0	0
Dover	0	66	5	0	0	0
Dracut	0	427	25	20	1	0
Dudley	0	102	-- ¹	16	0	0
Dunstable	0	46	-- ¹	0	0	0
Duxbury	1	164	6	2	0	0
East Bridgewater	0	176	6	5	0	0
East Brookfield	1	30	-- ¹	2	0	0
East Longmeadow	0	152	5	2	0	0
Eastham	0	31	0	1	0	0
Easthampton	0	161	12	16	0	0
Easton	0	273	15	6	1	1
Edgartown	1	49	6	2	1	1
Egremont	0	5	0	0	0	0
Erving	0	14	0	3	0	0
Essex	1	42	-- ¹	0	1	1

Community	Occurrence Births	Resident Births	Low Birthweight	Teen Births, < 20 years	Infant Deaths	Neonatal Deaths
Everett	1	536	34	30	7	6
Fairhaven	1	143	18	14	2	0
Fall River	1,661	1,124	102	156	8	6
Falmouth	658	295	22	29	1	0
Fitchburg	4	537	48	102	4	1
Florida	0	7	-- ¹	0	0	0
Foxborough	0	220	15	5	0	0
Framingham	2,430	931	55	47	2	2
Franklin	1	467	27	10	1	1
Freetown	0	86	-- ¹	7	0	0
Gardner	415	254	16	28	1	1
Gay Head	0	2	0	0	0	0
Georgetown	0	106	-- ¹	2	0	0
Gill	0	11	0	0	0	0
Gloucester	2	388	17	32	3	1
Goshen	0	6	0	0	0	0
Gosnold	0	1	0	0	0	0
Grafton	0	185	7	5	1	1
Granby	0	67	-- ¹	0	0	0
Granville	0	21	0	1	0	0
Great Barrington	163	60	6	2	0	0
Greenfield	575	202	10	26	3	2
Groton	2	136	-- ¹	0	0	0
Groveland	0	78	0	3	0	0
Hadley	0	43	-- ¹	1	0	0
Halifax	0	84	7	3	2	1
Hamilton	0	122	5	2	0	0
Hampden	1	40	0	2	0	0
Hancock	0	10	0	0	0	0
Hanover	0	168	6	2	0	0
Hanson	0	138	5	6	1	1
Hardwick	0	26	0	2	0	0
Harvard	1	45	0	0	0	0
Harwich	0	103	-- ¹	6	0	0
Hatfield	0	29	-- ¹	1	0	0
Haverhill	597	910	47	69	4	3
Hawley	0	1	0	0	0	0
Heath	0	5	0	0	0	0
Hingham	1	253	8	4	0	0
Hinsdale	0	15	-- ¹	0	0	0
Holbrook	0	135	8	6	0	0
Holden	0	153	8	3	0	0
Holland	0	18	0	0	0	0
Holliston	1	176	9	2	0	0
Holyoke	888	720	61	192	6	5
Hopedale	0	77	7	0	1	1
Hopkinton	0	220	12	4	0	0
Hubbardston	1	55	-- ¹	6	0	0
Hudson	0	253	20	15	1	1

Community	Occurrence Births	Resident Births	Low Birthweight	Teen Births, < 20 years	Infant Deaths	Neonatal Deaths
Hull	0	143	9	12	2	1
Huntington	0	24	-- ¹	4	0	0
Ipswich	0	143	-- ¹	4	0	0
Kingston	0	177	8	7	0	0
Lakeville	1	131	8	8	0	0
Lancaster	1	69	-- ¹	2	0	0
Lanesborough	0	32	0	1	0	0
Lawrence	1,542	1,251	80	284	7	4
Lee	0	63	7	5	0	0
Leicester	1	134	10	10	0	0
Lenox	0	37	-- ¹	1	1	1
Leominster	1,722	624	38	74	4	3
Leverett	1	14	0	0	0	0
Lexington	0	274	16	2	2	2
Leyden	0	5	0	0	0	0
Lincoln	1	47	-- ¹	0	0	0
Littleton	2	140	10	1	2	2
Longmeadow	0	126	11	2	1	1
Lowell	2,767	1,643	126	238	11	6
Ludlow	0	190	7	8	0	0
Lunenburg	0	102	6	5	0	0
Lynn	2	1,314	87	162	11	10
Lynnfield	0	117	-- ¹	2	0	0
Malden	473	775	56	38	3	3
Manchester	0	60	-- ¹	1	1	1
Mansfield	0	404	20	10	1	0
Marblehead	0	258	12	1	0	0
Marion	0	36	-- ¹	2	0	0
Marlborough	1	571	24	37	2	1
Marshfield	0	371	11	10	0	0
Mashpee	0	145	9	8	1	1
Mattapoisett	0	46	-- ¹	1	0	0
Maynard	1	170	8	1	0	0
Medfield	0	189	13	0	0	0
Medford	1	665	34	22	1	1
Medway	2	192	6	7	0	0
Melrose	1,339	361	21	4	1	0
Mendon	0	58	5	0	0	0
Merrimac	0	87	5	2	0	0
Methuen	1,012	579	35	42	3	3
Middleborough	0	284	15	16	2	2
Middlefield	0	9	0	0	0	0
Middleton	0	91	-- ¹	3	0	0
Milford	459	366	16	19	0	0
Millbury	0	144	8	8	2	1
Millis	0	142	-- ¹	2	0	0
Millville	0	54	-- ¹	2	0	0
Milton	0	311	14	7	1	0
Monroe	0	1	0	1	0	0

Community	Occurrence Births	Resident Births	Low Birthweight	Teen Births, < 20 years	Infant Deaths	Neonatal Deaths
Monson	0	87	-- ¹	3	0	0
Montague	0	101	6	10	1	0
Monterey	0	8	-- ¹	0	0	0
Montgomery	0	8	-- ¹	0	0	0
Mount Washington	0	1	0	0	0	0
Nahant	0	31	-- ¹	2	0	0
Nantucket	63	90	-- ¹	4	0	0
Natick	341	498	32	6	4	3
Needham	0	377	19	0	0	0
New Ashford	0	0	0	0	0	0
New Bedford	1,577	1,247	84	218	6	2
New Braintree	0	6	0	2	0	0
New Marlborough	0	10	-- ¹	1	0	0
New Salem	0	6	-- ¹	0	0	0
Newbury	1	77	8	3	1	1
Newburyport	811	206	12	10	0	0
Newton	4,316	878	57	10	6	5
Norfolk	1	139	10	1	2	2
North Adams	358	158	13	34	1	1
North Andover	0	338	26	6	0	0
North Attleboro	1	406	20	16	0	0
North Brookfield	0	55	-- ¹	4	1	0
North Reading	0	204	10	5	2	2
Northampton	953	239	19	8	0	0
Northborough	0	187	8	3	0	0
Northbridge	2	198	11	12	3	3
Northfield	0	35	0	1	1	1
Norton	1	287	11	8	0	0
Norwell	0	120	10	1	2	2
Norwood	1,106	388	29	10	3	2
Oak Bluffs	117	39	-- ¹	0	1	0
Oakham	0	17	-- ¹	1	0	0
Orange	0	84	5	10	0	0
Orleans	1	38	-- ¹	1	0	0
Otis	0	14	-- ¹	1	0	0
Oxford	0	174	12	16	3	2
Palmer	0	141	6	14	1	1
Paxton	0	30	-- ¹	0	0	0
Peabody	0	565	25	23	7	7
Pelham	0	9	-- ¹	1	0	0
Pembroke	0	269	21	3	1	1
Pepperell	0	174	7	8	2	2
Peru	0	4	0	0	0	0
Petersham	1	16	-- ¹	0	0	0
Phillipston	0	14	-- ¹	0	1	0
Pittsfield	980	588	46	56	4	1
Plainfield	1	5	-- ¹	0	0	0
Plainville	0	99	-- ¹	3	0	0
Plymouth	778	640	37	41	3	2

Community	Occurrence Births	Resident Births	Low Birthweight	Teen Births, < 20 years	Infant Deaths	Neonatal Deaths
Plympton	0	24	0	1	0	0
Princeton	1	43	-- ¹	1	1	1
Provincetown	0	17	-- ¹	0	0	0
Quincy	815	1,014	49	39	4	2
Randolph	0	378	38	15	0	0
Raynham	0	146	9	10	0	0
Reading	0	298	19	4	1	0
Rehoboth	1	99	-- ¹	3	1	0
Revere	3	553	31	38	1	1
Richmond	0	12	-- ¹	0	0	0
Rochester	0	49	-- ¹	0	0	0
Rockland	0	231	6	11	0	0
Rockport	1	69	6	0	0	0
Rowe	0	3	0	0	0	0
Rowley	0	63	-- ¹	0	0	0
Royalston	1	10	0	0	0	0
Russell	0	23	-- ¹	2	0	0
Rutland	0	76	-- ¹	5	1	0
Salem	1,759	541	30	41	2	1
Salisbury	0	90	7	5	0	0
Sandisfield	0	10	0	0	0	0
Sandwich	0	241	15	8	0	0
Saugus	0	277	22	8	1	1
Savoy	0	10	-- ¹	1	0	0
Scituate	1	217	7	0	0	0
Seekonk	0	129	11	6	2	2
Sharon	2	217	11	1	1	1
Sheffield	0	38	-- ¹	0	0	0
Shelburne	0	17	0	1	0	0
Sherborn	0	46	-- ¹	0	0	0
Shirley	1	82	5	5	0	0
Shrewsbury	1	399	21	10	3	2
Shutesbury	1	19	0	0	0	0
Somerset	0	127	9	15	0	0
Somerville	2	954	74	71	5	3
South Hadley	1	149	6	9	2	2
Southampton	0	65	-- ¹	4	0	0
Southborough	1	143	-- ¹	0	0	0
Southbridge	418	219	17	39	1	0
Southwick	0	105	9	0	1	1
Spencer	1	146	14	12	1	1
Springfield	5,336	2,278	194	491	19	13
Sterling	0	86	5	2	0	0
Stockbridge	1	13	-- ¹	0	0	0
Stoneham	1,251	230	10	4	1	1
Stoughton	2	312	17	14	2	0
Stow	0	87	-- ¹	1	0	0
Sturbridge	0	83	-- ¹	3	1	1
Sudbury	0	229	7	1	0	0

Community	Occurrence Births	Resident Births	Low Birthweight	Teen Births, < 20 years	Infant Deaths	Neonatal Deaths
Sunderland	0	37	-- ¹	4	0	0
Sutton	0	119	6	1	0	0
Swampscott	0	169	11	5	1	1
Swansea	0	127	12	4	0	0
Taunton	674	779	48	98	3	2
Templeton	0	77	-- ¹	2	0	0
Tewksbury	1	412	26	4	4	4
Tisbury	2	32	-- ¹	0	0	0
Tolland	0	4	0	0	0	0
Topsfield	0	72	-- ¹	0	0	0
Townsend	1	120	-- ¹	7	1	1
Truro	0	11	-- ¹	0	0	0
Tyngsborough	0	175	5	6	1	0
Tyringham	0	0	0	0	0	0
Upton	0	127	8	1	0	0
Uxbridge	0	173	6	11	0	0
Wakefield	0	334	19	4	2	1
Wales	0	20	-- ¹	2	0	0
Walpole	0	299	14	4	2	2
Waltham	310	743	43	33	6	5
Ware	249	121	7	21	1	0
Wareham	421	237	12	25	0	0
Warren	1	61	-- ¹	8	0	0
Warwick	0	8	0	1	0	0
Washington	0	7	-- ¹	0	0	0
Watertown	2	422	28	7	3	2
Wayland	0	163	7	1	2	2
Webster	1	185	15	22	0	0
Wellesley	46	341	18	3	1	1
Wellfleet	1	26	-- ¹	0	0	0
Wendell	0	3	0	0	0	0
Wenham	0	38	0	0	0	0
West Boylston	1	65	0	3	0	0
West Bridgewater	0	93	-- ¹	6	0	0
West Brookfield	0	37	-- ¹	2	0	0
West Newbury	0	65	5	1	0	0
West Springfield	1	309	15	23	1	0
West Stockbridge	1	15	-- ¹	1	0	0
West Tisbury	1	20	-- ¹	0	0	0
Westborough	1	210	7	3	0	0
Westfield	4	475	22	29	4	4
Westford	0	298	14	4	0	0
Westhampton	0	21	-- ¹	1	0	0
Westminster	0	62	7	2	0	0
Weston	2	102	8	0	0	0
Westport	1	127	13	9	0	0
Westwood	1	177	6	0	0	0
Weymouth	3,109	747	49	27	4	4
Whately	0	12	0	0	0	0

Community	Occurrence Births	Resident Births	Low Birthweight	Teen Births, < 20 years	Infant Deaths	Neonatal Deaths
Whitman	0	200	13	3	2	2
Wilbraham	0	119	8	2	0	0
Williamsburg	0	18	-- ¹	3	0	0
Williamstown	1	33	-- ¹	0	0	0
Wilmington	0	333	18	6	0	0
Winchendon	1	130	5	19	0	0
Winchester	2,269	245	7	0	0	0
Windsor	0	11	0	1	0	0
Winthrop	0	211	17	4	3	2
Woburn	0	432	21	14	0	0
Worcester	5,862	2,253	187	310	22	19
Worthington	0	8	0	0	0	0
Wrentham	0	183	14	1	1	1
Yarmouth	0	190	19	10	2	0

¹ Values of 1-4 for medical characteristics of communities with less than 200 births are suppressed based on *Guidelines For Release Of Birth Data*, Bureau of Health Statistics, Research and Evaluation, November 19, 1996.

**Table B-14B. Birth Characteristics: Occurrence and Resident Births and Infant Deaths, Massachusetts
Counties: 1996**

COUNTY NAME	OCCURRENCE BIRTHS		RESIDENT BIRTHS			DEATHS		
	Number		Low Birthweight	Teen (< 20 years)	Infant	Neonatal		
State Total	81,147	80,164	5105	5849	403	290		
Barnstable	1,683	2,037	119	123	4	1		
Berkshire	1,505	1,394	107	119	7	4		
Bristol	4,697	6,568	452	653	29	17		
Dukes	122	151	12	2	2	1		
Essex	8,607	9,619	528	748	54	42		
Franklin	579	716	29	66	5	3		
Hampden	6,233	5,827	418	866	40	31		
Hampshire	1,208	1,337	69	87	3	2		
Middlesex	18,739	19,142	1,129	779	86	67		
Nantucket	63	90	-- ¹	4	0	0		
Norfolk	5,089	8,352	479	198	24	18		
Plymouth	3,551	6,344	383	416	32	24		
Suffolk	20,166	9,092	780	940	62	40		
Worcester	8,899	9,492	597	848	55	40		

¹ See footnote on previous page.

**Table B-14C. Birth Characteristics: Occurrence and Resident Births and Infant Deaths, Massachusetts
Community Health Network Areas (CHNAs): 1996**

Community Health Network Area	OCCURRENCE BIRTHS	RESIDENT BIRTHS			DEATHS	
		Number	Low Birthweight	Teen, < 20 years	Infant	Neonatal
State Total	81,147	80,164	5105	5849	403	290
Community Health Network of Berkshire (1)	1,505	1,394	107	119	7	4
Upper Valley Health Web (Franklin County, 2)	581	901	42	89	6	3
Hampshire County Partnership for Health (3)	1,208	1,313	68	83	3	2
Greater Holyoke Area (3.21)	893	2,019	136	298	14	12
Greater Springfield Community Health Network (4)	5,338	3,761	276	565	26	19
Greater Southbridge Area (5)	425	1,336	86	145	7	4
Community Partners for Health (Milford Area, 6)	464	2,236	115	79	6	6
Greater Framingham (7)	2,777	5,383	282	142	17	15
Community Wellness Coalition (Worcester Area, 8)	5,865	3,573	253	350	30	25
Fitchburg/Gardner Area Community Health Network (9)	2,150	3,220	193	311	16	10
Greater Lowell Community Health Network (10)	2,770	4,031	244	305	18	11
Greater Lawrence Area (11)	2,554	2,627	164	339	11	8
Greater Haverhill Area (12)	1,410	2,029	97	108	5	4
Beverly/Gloucester Area (13)	2,881	1,425	65	55	14	9
North Shore Community Health Network (14)	1,762	3,538	202	246	24	21
Greater Woburn/Concord/Littleton Area (15)	3,784	2,587	145	32	5	5
Medford/Malden/Melrose Area (16)	3,065	3,403	203	111	18	14
Cambridge/Somerville Area (17)	1,714	3,170	208	133	18	14
West Suburban Health Network (Newton/Waltham, 18)	4,675	2,973	168	53	14	12
City of Boston/Chelsea/Revere/Winthrop (19)	20,170	9,700	813	949	62	40
Blue Hills Community Health Alliance (Quincy Area, 20)	5,034	4,583	276	134	17	12
Greater Brockton Community Health Network (22)	2,349	3,207	235	285	21	14
South Shore Community Partners in Prevention (Greater Plymouth Area, 23)	780	2,396	115	90	8	6
Greater Attleboro/Taunton Area (24)	1,458	3,407	207	222	14	10
Partners for a Healthier Community (Fall River Area 25)	1,662	1,505	136	184	8	6
Greater New Bedford Area (26)	1,999	2,166	135	293	8	2
Cape and Islands Community Health Network (27)	1,868	2,278	134	129	6	2

DEATHS

SECTION C

DEATHS

Massachusetts resident deaths decreased from 1995 (55,296 deaths) to 1996 (55,187 deaths). However, the 1996 death rate of 8.9 per 1,000 population varied only slightly from the 1995 death rate of 9.0. As with live births, Massachusetts resident deaths include all deaths to Massachusetts residents regardless of the state in which they occurred. Most data presented in this section are resident data. Occurrence data are used only for medical examiner data.

DEATHS BY RACE/ETHNICITY

From 1995 to 1996, the number of deaths by race/ethnicity remained relatively constant with white non-Hispanic residents comprising 94.1% of total deaths in Massachusetts. Black non-Hispanic deaths totaled 3.4% of total deaths, Hispanic deaths 1.5%, Asian deaths 0.7%, other and unknown race deaths 0.3%.

Prior to 1989, only a race question was included on death certificates. A separate item on Hispanic origin was added to the death record beginning January 1, 1989. This item asks whether the decedent was of Hispanic origin. If answered affirmatively, then specific Hispanic origin (e.g., Puerto Rican, Dominican, Cuban, etc.) is requested.

DEATHS BY AGE

Persons 75 years of age or older accounted for 60.2% of all resident deaths. The percent of deaths to residents in this age group vary widely by sex and race/ethnicity.

SEX	RACE	% OF DEATHS UNDER AGE 75	% OF DEATHS 75 YEARS AND OLDER
MALE	WHITE NON-HISPANIC	48.5	51.5
	BLACK NON-HISPANIC	75.7	24.3
	HISPANIC	85.6	14.4
	ASIAN	69.1	30.9
	OTHER/UNKNOWN	60.4	39.6
	TOTAL	50.5	49.5
FEMALE	WHITE NON-HISPANIC	28.7	71.3
	BLACK NON-HISPANIC	57.2	42.8
	HISPANIC	72.7	27.3
	ASIAN	54.7	45.3
	OTHER/UNKNOWN	48.3	51.7
	TOTAL	30.2	69.8
TOTAL	WHITE NON-HISPANIC	37.9	62.1
	BLACK NON-HISPANIC	67.0	33.0
	HISPANIC	81.1	18.9
	ASIAN	62.6	37.4
	OTHER/UNKNOWN	54.7	45.3
	TOTAL	39.8	60.2

DEATHS BY PLACE OF OCCURRENCE

Between 1995 and 1996, there was little variation in the sites where deaths occurred. The data are presented below:

SITE	% OF DEATHS 1996	% OF DEATHS 1995
HOSPITAL	48.0	49.0
NURSING OR REST HOME	28.1	26.9
AT HOME	20.3	20.7
EN ROUTE TO HOSPITAL OR DEAD ON ARRIVAL	2.2	2.5
OTHER AND UNKNOWN ¹	1.4	0.9
TOTAL	100.0	100.0

DEATHS BY CAUSE

Cause of death statistics in this report are based on the Ninth Revision of the International Classification of Diseases (ICD-9). The methodology of coding cause of death from death certificates is consistent nationally, using the Automated Classification of Medical Entities (ACME), developed by the National Center for Health Statistics (NCHS). The ACME system requires every disease or condition mentioned on the record to be coded. The underlying cause is then selected by a computer program which incorporates the ICD-9 rules and conventions. Cause of death information in this report is based on underlying cause, except where otherwise noted.

The leading causes of death differed markedly by race and ethnicity in 1996, as in previous years. Nine of the ten leading causes of death for whites were chronic diseases (e.g., heart disease, cancer, stroke, respiratory illness, and diabetes) which usually afflict older people. However, the leading causes of death for blacks and Hispanics included homicide, which occurs more frequently among younger people, and perinatal conditions, which occur in infancy. AIDS was the third leading cause of death for Hispanics and Blacks.

¹ Other and Unknown includes prison or other institutions and all other places.

White			Black			Hispanic ²		
Cause	#	%	Cause	#	%	Cause	#	%
Heart disease	16,259	30.8	Cancer	488	24.1	Heart disease	146	18.2
Cancer	13,288	25.2	Heart disease	449	22.2	Cancer	139	17.3
Stroke	3,209	6.1	AIDS & HIV-related diseases	161	7.9	AIDS & HIV-related diseases	101	12.6
Pneumonia & Influenza	2,724	5.2	Stroke	94	4.6	Stroke	30	3.7
COPD ³	2,363	4.5	Diabetes	71	3.5	Diabetes	28	3.5
Diabetes	1,275	2.4	Homicide	64	3.2	Motor vehicle injuries	26	3.2
Nephritis	822	1.6	Pneumonia & Influenza	60	3.0	Homicide	24	3.0
Unintentional injury ⁴	766	1.4	COPD	55	2.7	Perinatal conditions	23	2.9
Septicemia	715	1.4	Septicemia	39	1.9	COPD	22	2.7
Other artery diseases	684	1.3	Nephritis	36	1.8	Chronic liver disease	22	2.7
All other causes ⁵	10,615	20.1	All other causes	508	25.1	All other causes	242	30.1
Total	52,720	100.0	Total	2,025	100.0	Total ⁶	803	100.0

ACQUIRED IMMUNE DEFICIENCY SYNDROME (AIDS)

The Ninth Revision of the International Classification of Diseases was developed before the identification of AIDS. Classification of this disease and related diseases has evolved since 1981. The deaths presented in Table C-11 and Table C-12 were coded using the most current schedule, developed in 1987. Therefore, comparison data prior to 1987 are not available.

In 1996, 609 Massachusetts residents died from AIDS and HIV-related illnesses. This represents a 36% increase from 1990, but it also marks a huge decrease from 1995: a reduction of 328 deaths, a 35% drop. The dramatic decline in the number of deaths from AIDS and HIV-related diseases from 1995 to 1996 is likely due, in part, to improved treatment efforts that have resulted in increased longevity.

² Persons of Hispanic ethnicity are also included in the race categories, consistent with the US Census population classification.

³ Chronic Obstructive Pulmonary Disease.

⁴ Excludes motor vehicle injuries.

⁵ All Other Causes includes intentional and motor vehicle injuries and all other causes not specifically mentioned above.

⁶ Percents may not sum to 100.0 due to rounding.

DEATHS CERTIFIED BY MEDICAL EXAMINERS

The total number of deaths certified by medical examiners decreased from 4,209 in 1995 to 3,974 in 1996. Of the deaths certified by medical examiners, 51.5% were reported as a result of natural causes. The percentage of deaths due to natural causes (i.e., non-injury related causes) certified by medical examiners varies widely by county, from a high of 66.2% in Barnstable County to a low of 20.0% in Nantucket County. Hampden County had the greatest percentage of deaths (20.4%) that were referred to medical examiners, while the highest number of such deaths was in Middlesex County with 1,909 deaths (17.3%).

COMMUNITY HEALTH NETWORK AREAS (CHNA)

The Department of Public Health, in collaboration with health service providers, coalition members, and other interested citizens, has designated 27 geographic areas for community health planning. It is the Department's intention to foster in each of these areas the development of Community Health Networks--consortia of health care providers, human service agencies, schools, churches, youth, parents, elders, advocacy groups, and individual consumers--to address the health needs of the community. These community coalitions will participate in monitoring outcomes and the progress of strategies and responses to those health needs. The data published in this edition reflect the new definitions of CHNAs instituted in January 1997.

A Community Health Network Area (CHNA) is defined as an aggregation of cities and towns. (The city of Boston constitutes its own Community Health Network Area.) It is hoped that the Networks will mobilize around key health issues impacting the community, promote prevention efforts, enhance access to health care, provide opportunities for more collaboration among agencies, and create a client-centered, outcome-oriented health service delivery system. Community Health Networks will also promote efficiency in service delivery by working to reduce duplication and overlap, and by identifying gaps in service.

DEFINITIONS IMPORTANT FOR THIS SECTION INCLUDE:

AGE-ADJUSTED RATE

A procedure for adjusting rates, designed to minimize the effects of differences in age distribution when comparing rates for different populations. This procedure is accomplished by the computational process known as age standardization, whereby mortality statistics are adjusted to a reference population. For this publication, the reference population is the 1940 US population, the same as used by the National Center for Health Statistics. The result of the process is a summary index that can be used to compare rates of different populations throughout the nation and over time.

CAUSE OF DEATH

The disease or injury that initiated the series of events leading to death, or the circumstances of the unintentional or intentional injury that resulted in the death.

DEATH CERTIFICATE

A vital record signed by a licensed physician that includes cause of death, decedent's name, sex, birth date, place of residence, and place of occurrence.

INTERNATIONAL CLASSIFICATION OF DISEASES, NINTH REVISION

The International Classification of Disease (ICD) classifies mortality information for statistical purposes. The ICD was first used in 1900 and has since been revised about every 10 years. The Ninth Revision, published in 1977, is used to code mortality data beginning with 1979.

MISER

The Massachusetts Institute for Social and Economic Research. This research institute, located at the University of Massachusetts in Amherst, produces the official population estimates and projections for the Department of Public Health.

OCCURRENCE DEATH

Occurrence deaths include all deaths that occur within the state, including deaths of non-residents. An interstate exchange agreement among the 50 states and Canada provides for exchanges of copies of birth and death records. These records are used for statistical purposes only, and allow each state or province to track the births and deaths of residents.

RACE

For death records, race is provided by the death record informant (for example, spouse or next of kin).

RESIDENT DEATH

The death of a person whose usual place of residence or permanent address (as reported by the informant) is in one of the 351 cities or towns of Massachusetts, regardless of where the death took place. Unless otherwise noted, all data in this publication are resident data. An interstate exchange agreement among the 50 states, Canada, Puerto Rico, Guam, the Virgin Islands, and the District of Columbia provides for exchange of copies of birth and death records. These records are used for statistical purposes only, and allow each state or province to track the births and deaths of residents.

UNDERLYING CAUSE OF DEATH

The underlying cause of death is: 1.) the disease or injury that initiated the series of events leading to death, or 2.) the circumstances of the unintentional or intentional injury that resulted in the death. See Death Certificate.

RATES IMPORTANT FOR THIS SECTION INCLUDE:

AGE-SPECIFIC DEATH RATE	$\frac{\text{Number of Resident Deaths in Specific Age Group}}{\text{Total Population of Specific Age Group}} \times 100,000$
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CAUSE-SPECIFIC DEATH RATE	$\frac{\text{Number of Resident Deaths for a Specific Cause}}{\text{Total Population}} \times 100,000$
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CRUDE DEATH RATE	$\frac{\text{Number of Resident Deaths In A Year}}{\text{Total Population}} \times 100,000$
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**Figure C-1. Daily Death Statistics
Massachusetts: 1996**

Every day in 1996, residents of Massachusetts experienced an average of:

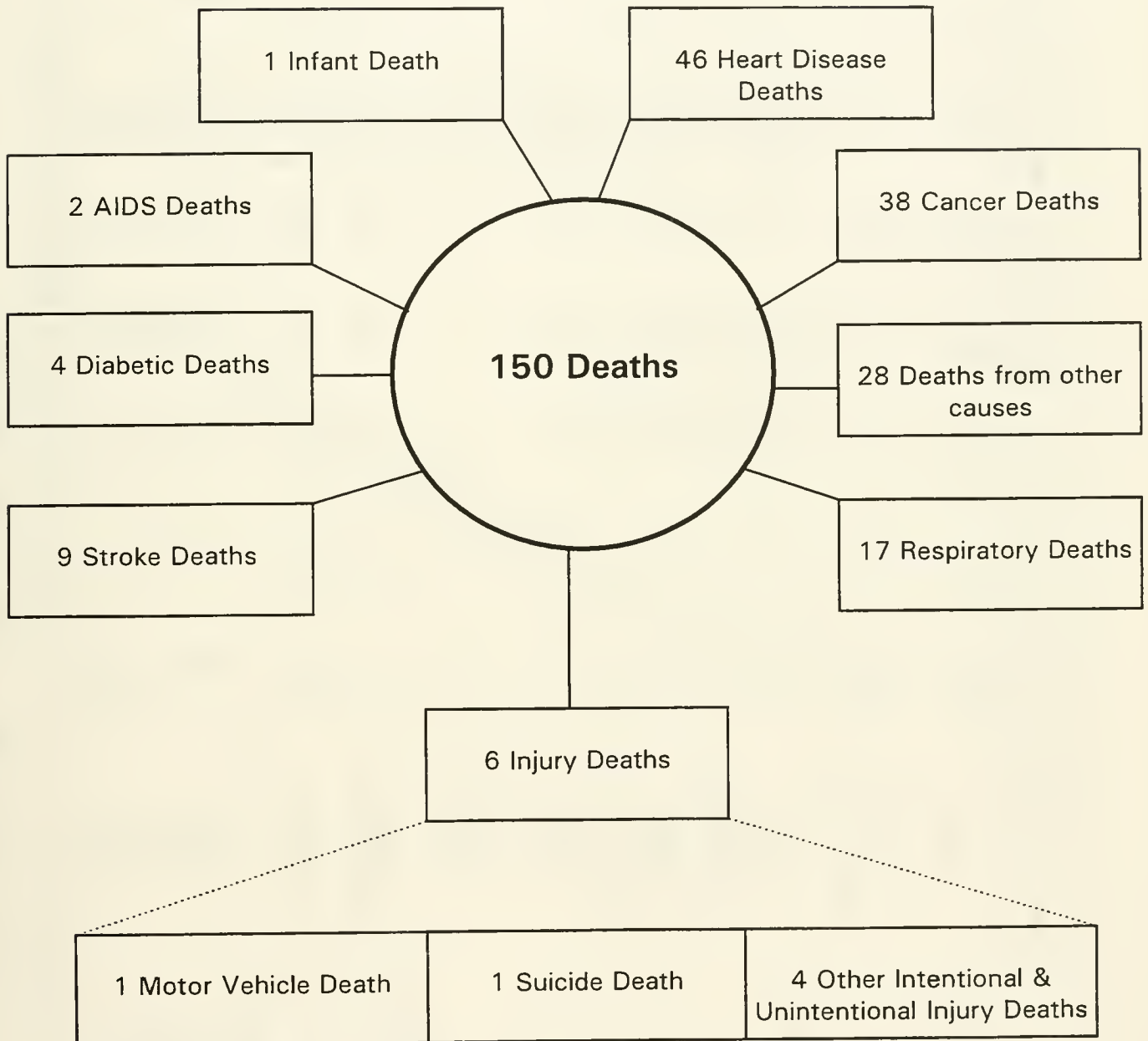


Table C-1. Trends in Mortality Characteristics¹, Massachusetts: 1980, 1985, 1990-1996

Year	1980	1985	1990	1991	1992	1993	1994	1995	1996
Resident deaths									
Number	54,934	55,597	53,008	53,010	53,804	55,557	54,914	55,296	55,187
Crude rate ^{2,3,4}	957.5	946.0	881.0	877.5	887.1	912.4	898.2	900.9	895.6
Age-adjusted rate ⁵	550.7	523.7	471.7	462.2	465.9	467.7	459.7	451.0	439.6
Race of decedent ⁶									
White									
Number	53,251	53,580	50,779	50,814	51,525	53,182	52,465	52,721	52,720
Percent	96.9	96.4	95.8	95.8	95.8	95.7	95.5	95.3	95.5
Age-adjusted rate	549.1	498.9	465.6	457.4	461.4	463.1	455.2	445.2	436.1
Black									
Number	1,508	1,779	1,879	1,887	1,957	1,969	2,079	2,136	2,025
Percent	2.8	3.2	3.5	3.6	3.6	3.5	3.8	3.9	3.7
Age-adjusted rate	932.6	761.1	628.2	593.7	607.1	592.0	599.1	602.8	556.1
Other ⁷									
Number	141	214	341	303	319	394	368	438	433
Percent	0.3	0.4	0.6	0.5	0.6	0.7	.7	0.8	0.8
Unknown									
Number	34	24	9	5	3	12	2	1	9
Percent	-	-	-	-	-	-	-	-	-
Sex of decedent									
Female									
Number	27,563	28,367	27,490	27,550	27,770	29,109	28,733	29,262	29,152
Age-adjusted rate	377.9	362.0	360.0	353.9	356.0	360.5	355.4	350.9	340.5
Male									
Number	27,369	27,230	25,518	25,460	26,034	26,448	26,181	26,034	26,035
Age-adjusted rate	663.6	627.5	618.5	604.5	610.2	607.8	59,502	580.4	568.4
Age of decedent ⁸									
<1 year									
Number	748	746	649	576	569	523	499	419	403
1-14 years									
Number	297	246	205	207	225	239	192	204	197
15-24 years									
Number	940	763	586	538	470	464	473	452	434
25-44 years									
Number	2,117	2,303	2,682	2,912	3,062	3,055	3,210	3,196	2,720
45-64 years									
Number	10,504	9,691	8,138	7,877	7,973	7,920	7,766	7,611	7,477
65+ years									
Number	40,326	41,843	40,742	40,894	41,503	43,349	42,769	43,409	43,950

¹ Deaths presented in all tables and figures are resident deaths unless otherwise specified. ² Deaths per 100,000 residents. ³ See narrative at the beginning of this section for further definition of terms and rates. ⁴ Resident population data are interpolations of the 1980 and 1990 US Census, and the 1995 MISER population estimates published in June 1997. 1996 populations are extrapolations of the 1995 estimates. **PLEASE NOTE: death rates from 1991-1995 may differ from previous publications, due to the updating of population estimates.** ⁵ Rates are age-adjusted per 100,000 residents using the 1940 US Census standard population. ⁶ See other tables for recently available Hispanic data. ⁷ "Other" races include Asians, American Indians and persons of other races. ⁸ Column sum may not equal total because age of some decedents was unknown.

Figure C-2. Expected Years of Life Remaining at Different Ages for Males and Females by Race, Massachusetts: 1996

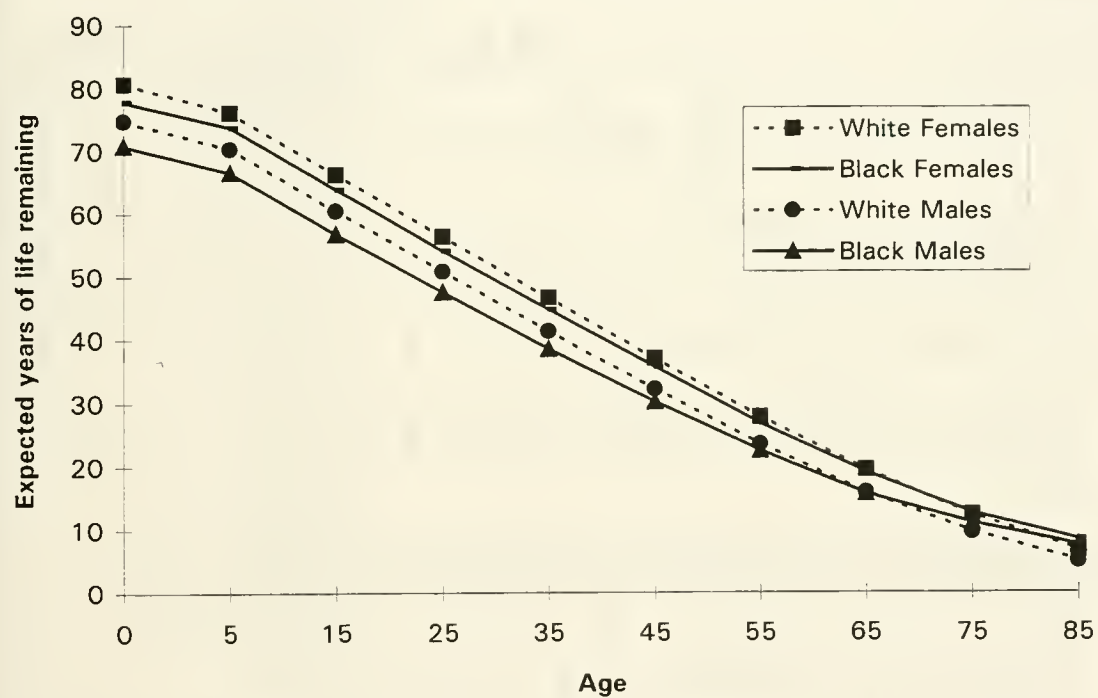
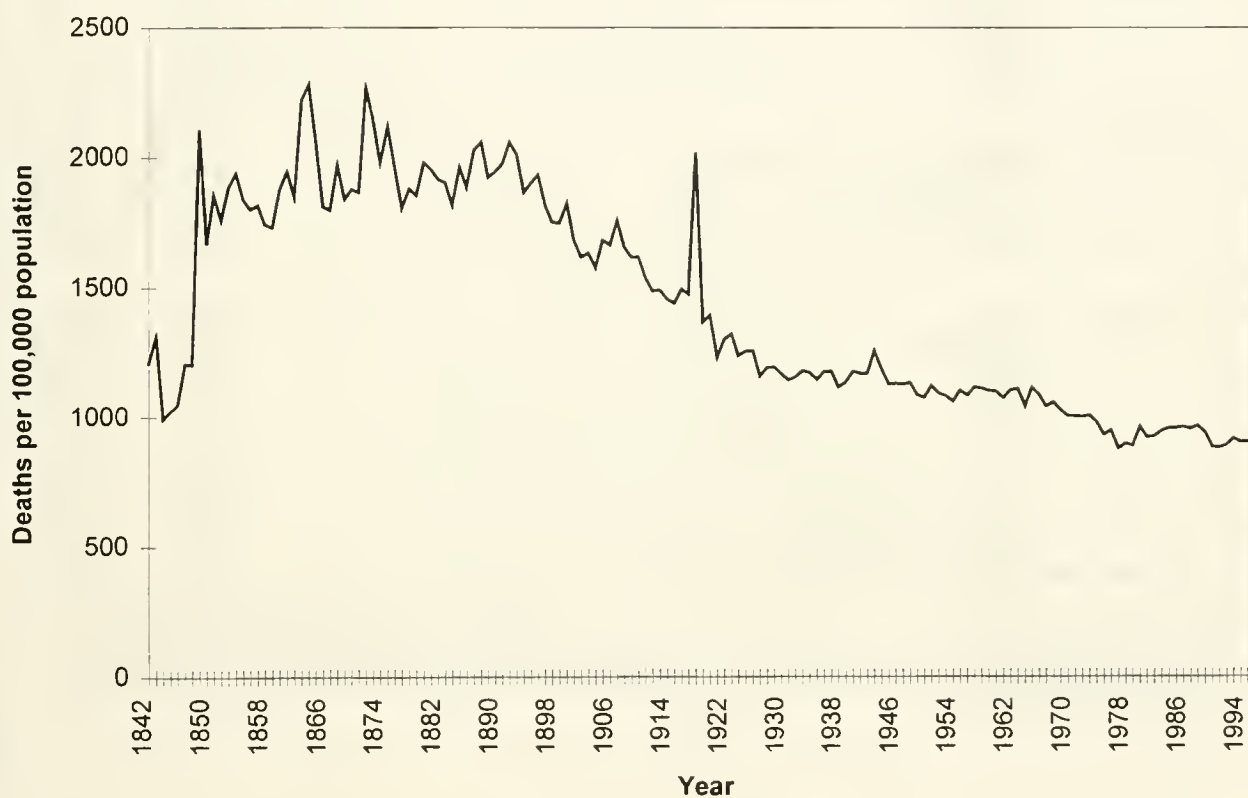


**Table C-2. Five Leading Causes of Death¹, Age-Adjusted Rates²
Massachusetts and United States: 1980, 1985, 1990-1996**

Year		Heart disease		Cancer		Stroke		Pneumonia/ Influenza		Unintentional Injuries		All Causes	
		MA	US	MA	US	MA	US	MA	US	MA	US	MA	US
1980	Rate ²	197.7	202.0	136.6	132.8	34.2	40.8	16.7	12.9	30.4	42.3	550.7	585.8
	% of Total	39.9	38.2	22.2	20.9	7.9	8.6	4.0	2.7	3.9	5.3		
1985	Rate	178.7	180.5	140.2	133.6	27.3	32.3	14.7	13.4	25.2	34.7	523.7	546.1
	% of Total	37.9	37.2	23.5	22.0	6.8	7.3	4.0	3.2	3.4	4.5		
1990	Rate	138.2	150.3	136.7	133.0	22.5	27.6	14.2	13.5	19.4	32.7	471.7	515.1
	% of Total	33.4	33.5	25.3	23.4	6.2	6.7	4.3	3.6	2.9	4.3		
1991	Rate	131.4	146.1	137.7	132.6	21.2	26.5	14.1	12.6	18.1	31.7	462.2	507.9
	% of Total	32.2	33.2	26.0	23.8	6.2	6.6	4.5	3.5	2.7	4.2		
1992	Rate	135.2	144.5	146.5	133.2	22.2	26.1	14.3	12.7	17.4	29.2	465.9	504.9
	% of Total	31.7	33.1	26.3	23.9	6.2	6.6	4.5	3.5	2.4	4.0		
1993	Rate	135.7	145.3	142.6	132.6	22.1	26.5	16.5	13.5	17.9	30.3	467.7	513.3
	% of Total	31.7	32.6	25.2	23.4	6.1	6.6	5.0	3.6	2.4	3.9		
1994	Rate	123.1	140.4	134.8	131.5	20.8	26.5	14.9	13.0	15.5	30.3	459.7	507.4
	% of Total	30.8	32.1	25.3	23.4	6.1	6.7	4.8	3.6	2.4	4.0		
1995	Rate	117.3	138.3	134.3	129.9	20.8	26.7	14.9	12.9	14.1	30.5	451.0	503.9
	% of Total	30.2	31.8	25.4	23.3	6.3	6.8	4.9	3.6	2.2	4.0		
1996	Rate	116.8	134.6	130.6	129.9	20.0	26.5	14.7	12.6	14.1	30.1	439.6	493.6 ³
	% of Total	30.4	31.6	25.2	23.4	6.1	6.9	5.1	3.6	2.3	4.0		

¹ Cause of death: the disease or injury that initiated the events leading to death; or the circumstances of the unintentional or intentional injury that resulted in the death. ² All rates are age-adjusted per 100,000 residents using the 1940 US Census standard population. Differences from previously published rates for Massachusetts 1991-1995 data reflect the change in population estimates used as denominators for the calculation of Massachusetts age-adjusted mortality rates. ³ The preliminary 1996 US data are based on greater than 90% of 1996 deaths. Source: Births and Deaths: United States, 1996, "Monthly Vital Statistics Report, Preliminary Data from the Centers for Disease Control and Prevention/National Center for Health Statistics", US Department of Health and Human Services, Vol. 46, No. 1, Supplement 2, Sept. 11, 1997, Table D.

Figure C-3. Massachusetts Crude Death Rate: 1842¹-1996



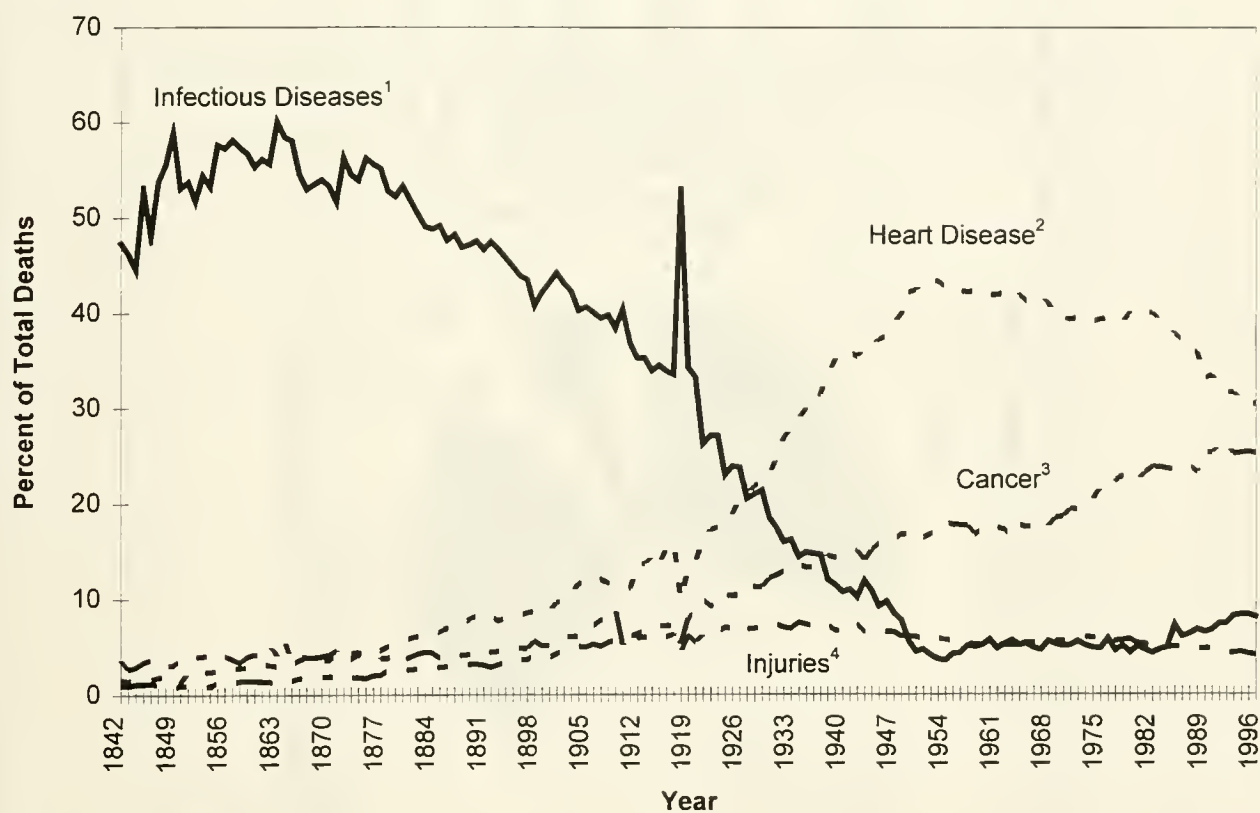
¹ In 1842, the Massachusetts state legislature mandated a statewide registration of vital statistics by community. However, not every community participated in the initial years.

Table C-3. Leading Causes of Death by Age, All Persons, Massachusetts: 1996

Age	Cause of Death	Deaths	
		Number	Rate ¹
1-14 years	Unintentional injuries, excluding motor vehicle injuries	35	3.1
	Cancer	26	2.3
	Congenital anomalies	24	2.2
	Motor vehicle-related injuries	15	1.3
	TOTAL	197	17.7
15-24 years	Motor vehicle-related injuries	116	15.0
	Homicide ²	72	9.3
	Suicide	53	6.8
	Cancer	33	4.3
	TOTAL	434	56.0
25-44 years	Cancer	471	22.5
	AIDS and HIV-related diseases	454	21.7
	Heart disease	307	14.7
	External causes, unknown intent	242	11.6
	TOTAL	2,720	130.1
45-64 years	Cancer	3,029	242.4
	Heart disease	1,910	152.8
	Diabetes	225	18.0
	COPD ³	224	17.9
	TOTAL	7,477	598.2
65 + years	Heart disease	14,535	1,706.6
	Cancer	10,358	1,216.2
	Cerebrovascular disease (stroke)	3,078	361.4
	Pneumonia and Influenza	2,617	307.3
	TOTAL	43,950	5,160.2

¹ Number of deaths per 100,000 persons in each age group. ² The NCHS categories for 72 selected causes of death combines Homicide (ICD-9 E960-969) and Legal Intervention (ICD-9 E970-978). There were no deaths due to legal intervention in the 15-24 year age group. ³ Chronic Obstructive Pulmonary Disease.

Figure C-4. Trends in Deaths from Selected Causes, Massachusetts: 1842-1996



¹ The category of infectious diseases includes Infectious and Parasitic Diseases, ICD-9 codes 001-139, and Pneumonia and Influenza, ICD-9 codes 480-487.

² Heart Disease, ICD-9 codes 390-398, 402, 404-429.

³ Cancer, ICD-9 codes 140-208.

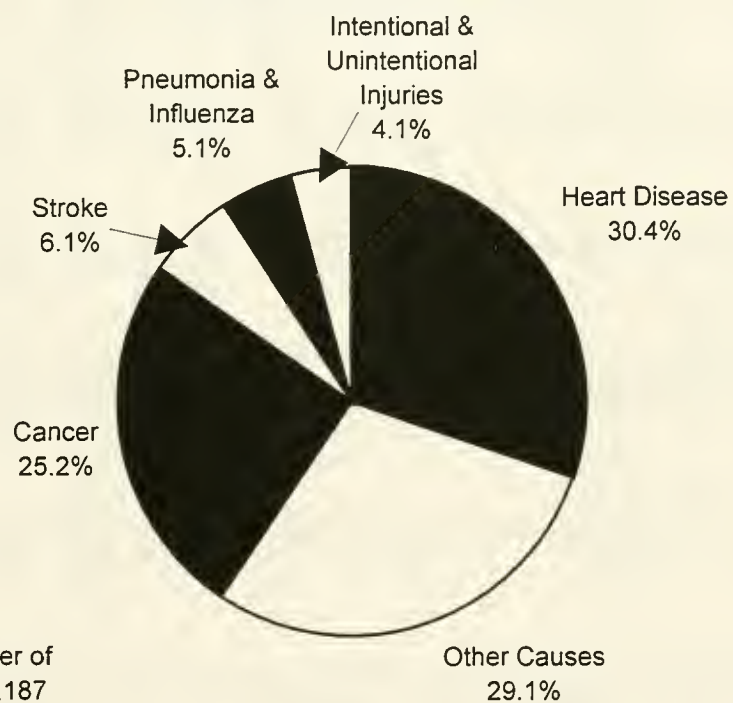
⁴ Injuries, ICD-9 codes E800-E999.

Table C-4. Leading Causes of Death¹ and Age-Adjusted Death Rates by Race and Hispanic Ethnicity², Massachusetts: 1996

Cause	White			Black			Hispanic		
	Cause	#	Rate ³	Cause	#	Rate	Cause	#	Rate
Total		52,720	436.1	Total	2,025	556.1	Total	803	294.6
Heart disease		16,259	117.3	Cancer	488	150.4	Heart disease	146	62.3
Cancer		13,288	130.4	Heart disease	449	127.2	Cancer	139	58.5
Stroke		3,209	19.7	AIDS and HIV-related diseases	161	37.6	AIDS and HIV-related diseases	101	28.8
Pneumonia/influenza		2,724	14.8	Stroke	94	26.1	Stroke	30	12.2
COPD ⁴		2,363	18.3	Diabetes	71	21.3	Diabetes	28	13.8
Diabetes		1,275	11.2	Homicide	64	15.0	Motor vehicle injury	26	7.7
Nephritis		822	5.7	Pneumonia/influenza	60	14.9	Homicide	24	6.4
Unintentional injury, excluding motor vehicle		766	7.1	COPD	55	14.7	Perinatal conditions	23	5.0
Septicemia		715	5.1	Septicemia	39	10.7	COPD	22	7.1
Other artery disease		684	5.1	Nephritis	36	9.8	Chronic liver disease	22	9.6

¹ Ranking based on number of deaths. ² Persons of Hispanic ethnicity are also included in the race categories, consistent with the US Census population classification. ³ All rates are age-adjusted per 100,000 residents using the 1940 US Census standard population. ⁴ Chronic Obstructive Pulmonary Disease.

**Figure C-5. Percentage Distribution of Leading Causes of Death¹,
Massachusetts: 1996**



¹ Total Number of
Deaths = 55,187

Table C-5. Number and Age-Specific Rates for Selected Causes of Death by Race and Hispanic Ethnicity, Massachusetts: 1996

Selected Causes	Total			White			Black			Hispanic ¹		
	#	Rate ²	#	Rate	#	Rate	#	Rate	#	Rate	#	Rate
Age: 1-14, TOTAL	197	17.7	162	16.8	24	23.9	25	25.0				
Unintentional injuries, excluding motor vehicle injuries	35	3.1	23	2.4	7	7.0	2	--.3				
Cancer	26	2.3	22	2.3	3	--	2	--				
Congenital Anomalies	24	2.2	20	2.1	2	--	6	6.0				
Motor vehicle related injuries	15	1.3	14	1.5	1	--	3	--				
Age: 15-24, TOTAL	434	56.0	357	53.3	62	83.2	48	70.3				
Motor vehicle-related injuries	116	15.0	108	16.1	8	10.7	9	13.2				
Homicide ⁴	72	9.3	36	5.4	32	43.0	11	16.1				
Suicide	53	6.8	49	7.3	2	--	6	8.8				
Cancer	33	4.3	30	4.5	2	--	2	--				
Age: 25-44, TOTAL	2,720	130.1	2,362	126.5	314	211.3	236	190.9				
Cancer	471	22.5	430	23.0	30	20.2	23	18.6				
AIDS & HIV-related diseases	454	21.7	336	18.0	113	76.1	85	68.8				
Heart disease	307	14.7	280	15.0	25	16.8	16	12.9				
External causes, undetermined intent	242	11.6	227	12.2	13	8.8	29	23.5				
Age: 45-64, TOTAL	7,477	598.2	6,908	595.1	476	789.4	202	479.8				
Cancer	3,029	242.4	2,814	242.4	166	275.3	55	130.6				
Heart disease	1,910	152.8	1,793	154.4	101	167.5	41	97.4				
Diabetes	225	18.0	202	17.4	23	38.1	13	30.9				
COPD ⁵	224	17.9	218	18.8	4	--	6	14.3				
Age: 65+, TOTAL	43,950	5,160.2	42,600	5,191.1	1,082	4,928.0	252	1,788.0				
Heart Disease	14,535	1,706.6	14,152	1,724.5	319	1,452.9	83	588.9				
Cancer	10,358	1,216.2	9,990	1,217.3	286	1302.6	57	404.4				
Stroke	3,078	361.4	2,971	362.0	71	323.4	15	106.4				
Pneumonia	2,617	307.3	2,565	312.6	44	200.4	12	85.1				

¹ Persons of Hispanic ethnicity are also included in the race categories, consistent with the US Census population classification. ² Number of deaths per 100,000 persons in each age group. ³ Calculations based on fewer than five events are excluded. ⁴ The NCHS categories for 72 selected causes of death combine Homicide (ICD-9 E960-969) and Legal Intervention (ICD-9 E970-978). There were no deaths due to legal intervention in the 15-24 year age group. ⁵ Chronic Obstructive Pulmonary Disease.

**Table C-6. Heart Disease and Cancer Deaths by Race and Sex,
Age-Adjusted Rates¹, Massachusetts: 1970-1996**

Heart Disease

Year	White		Black	
	Male	Female	Male	Female
1970	355.2	168.9	331.5	181.6
1975	306.4	141.1	307.4	166.5
1980	282.9	135.6	296.2	166.8
1985	254.7	121.9	266.4	158.6
1990	192.5	96.3	222.8	119.0
1995 ²	163.4	82.7	162.0	109.7
1996	162.5	82.6	165.2	127.2

Cancer

Year	White		Black	
	Male	Female	Male	Female
1970	166.0	113.0	242.7	126.0
1975	172.4	116.4	210.4	113.3
1980	169.4	117.7	235.8	128.3
1985	170.7	121.4	207.5	120.8
1990	166.8	117.3	187.8	119.5
1995 ²	161.7	115.1	203.5	124.9
1996	158.7	111.4	189.5	122.1

¹ All rates are age adjusted per 100,000 residents using the 1940 US Census standard population. ² Differences between 1995 age-adjusted mortality rates for Massachusetts and previously published rates for this year reflect updates in the population estimates used for calculation of these rates.

Table C-7. Number and Age-Adjusted Rates¹ of Cancer Deaths by Selected Causes² and Sex, Massachusetts: 1996

Cause of Death	ICD-9 Code	Total		Female		Male	
		#	Rate ³	#	Rate	#	Rate
Total Cancer Deaths	140-208	13,920	130.6	6,928	111.3	6,992	159.2
Esophagus	150	319	3.3	89	1.3	230	5.7
Stomach	151	388	3.3	162	2.0	226	4.9
Colon, rectum, rectosigmoid junction & anus	153-154	1,563	13.0	831	10.9	732	16.0
Pancreas	157	692	6.3	369	5.4	323	7.5
Lung, trachea and bronchus	162	3,686	37.0	1,639	29.0	2,047	48.2
Melanoma of the skin	172	211	2.3	90	1.6	121	3.1
Female breast	174	1,150	20.0	1,150	20.0	—	—
Cervix	180	88	2.0	88	2.0	—	—
Body of uterus and of uterus, part unspecified	179,182	167	2.7	167	2.7	—	—
Ovary	183	346	6.4	306	6.4	—	—
Prostate	185	821	15.1	—	—	821	15.1
Bladder	188	347	2.6	109	1.2	238	4.7
Kidney and other and unspecified urinary organs	189	279	2.8	115	1.8	164	4.0
Brain and other and unspecified parts of nervous system	191,192	286	3.5	111	2.2	175	4.8
Hodgkin's disease	201	42	0.5	15	0.3	27	0.8
Non-Hodgkin's lymphoma	200,202 (except 202.4)	602	5.6	275	4.1	327	7.6
Multiple myeloma and other immunoproliferative neoplasms	203	233	2.1	118	1.8	115	2.5
Leukemia	202.4, 204-208	492	4.6	223	3.4	269	6.2
All other cancers	Residual	2,208	20.9	1,031	15.1	1,177	28.1

¹ All rates are age-adjusted by the direct method using the 1940 US Census population. Rates are per 100,000 population. ² The grouping of ICD-9 codes for selected causes of cancers used in this document was updated starting in 1994. ³ The total resident population is used to calculate all "Total Rates" except for ICD9 174 to 183, which are based on the total female population, and ICD-9 185, which is based on the total male population.

Table C-8. Selected Causes of Cancer Deaths by Age, Massachusetts: 1996

Age	Cause of death ¹	ICD-9 Code	Number	Age-specific rate ²
1 - 14	Brain & other unspecified parts of the nervous system	191	8	0.7 ³
	Leukemia	202.4, 204-208	4	---
	Non-Hodgkin's lymphoma	200,202	2	---
	Ovary	183	1	---
	TOTAL		26	2.3
15 - 24	Leukemia	202.4, 204-208	7	0.9
	Brain & other unspecified parts of the nervous system	191	3	--
	Stomach	151	2	---
	Hodgkin's disease	201	2	---
	TOTAL		33	4.3
25 - 44	Female breast	174	73	6.9 ⁴
	Lung, trachea & bronchus	162	68	3.3
	Brain & other unspecified parts of the nervous system	191	38	1.8
	Colon, rectum	153-154	32	1.5
	TOTAL		471	22.5
45 - 64	Lung, trachea & bronchus	162	919	73.5
	Female breast	174	307	47.4 ⁴
	Colon, rectum	153-154	251	20.1
	Pancreas	157	147	11.8
	TOTAL		3,029	242.4
65 +	Lung, trachea & bronchus	162	2,699	316.9
	Colon, rectum	153-154	1,279	150.2
	Female breast	174	770	147.8 ⁴
	Prostate	185	763	230.8 ⁵
	TOTAL		10,203	1,216.2

¹ The grouping of ICD-9 codes for selected causes of cancers used in this document has been updated starting in 1994. ² Number of deaths per 100,000 residents in each age group. ³ Calculations based on fewer than five events are excluded. ⁴ Calculation based on female population in specified age group. ⁵ Calculation based on male population in specified age group.

Table C-9. Selected Causes of Cancer Deaths and Age-Adjusted Rates by Race & Hispanic Ethnicity, Massachusetts: 1996^{1,2}

Cause	White			Black			Hispanic		
	Number	Rate	Cause	Number	Rate	Cause	Number	Rate	Cause
Lung, trachea and bronchus	3,549	37.3	Lung, trachea and bronchus	101	32.6	Lung, trachea and bronchus	26	12.0	
Colon, rectum, rectosigmoid junction, and anus	1,501	13.0	Colon, rectum, rectosigmoid junction, and anus	49	15.6	Colon, rectum, rectosigmoid junction, and anus	16	6.2	
Female breast	1,099	20.2	Female breast	41	19.6	Non-Hodgkin's lymphoma	10	3.9	
Prostate	779	14.8	Prostate	36	27.7	Multiple myeloma	10	4.7	
Total Cancer	13,288	130.4	Total Cancer	488	150.4	Total Cancer	139	58.5	

¹ The grouping of ICD-9 codes for selected causes of cancers was updated starting in 1994. ² All rates are age-adjusted by the direct method using the 1940 US Census population. Rates are per 100,000 population. **PLEASE NOTE: DIFFERENCES IN AGE-ADJUSTED RATES FROM DATA FOR 1991-1995 MAY BE DUE TO UPDATES OF THE POPULATION ESTIMATES. THIS AFFECTS BLACK AND HISPANIC RATES IN PARTICULAR.** ³ Persons of Hispanic ethnicity are also included in the race categories, consistent with the US Census population classification.

Figure C-6. Suicide, Homicide and Motor Vehicle Death Rates, Massachusetts: 1844-1996

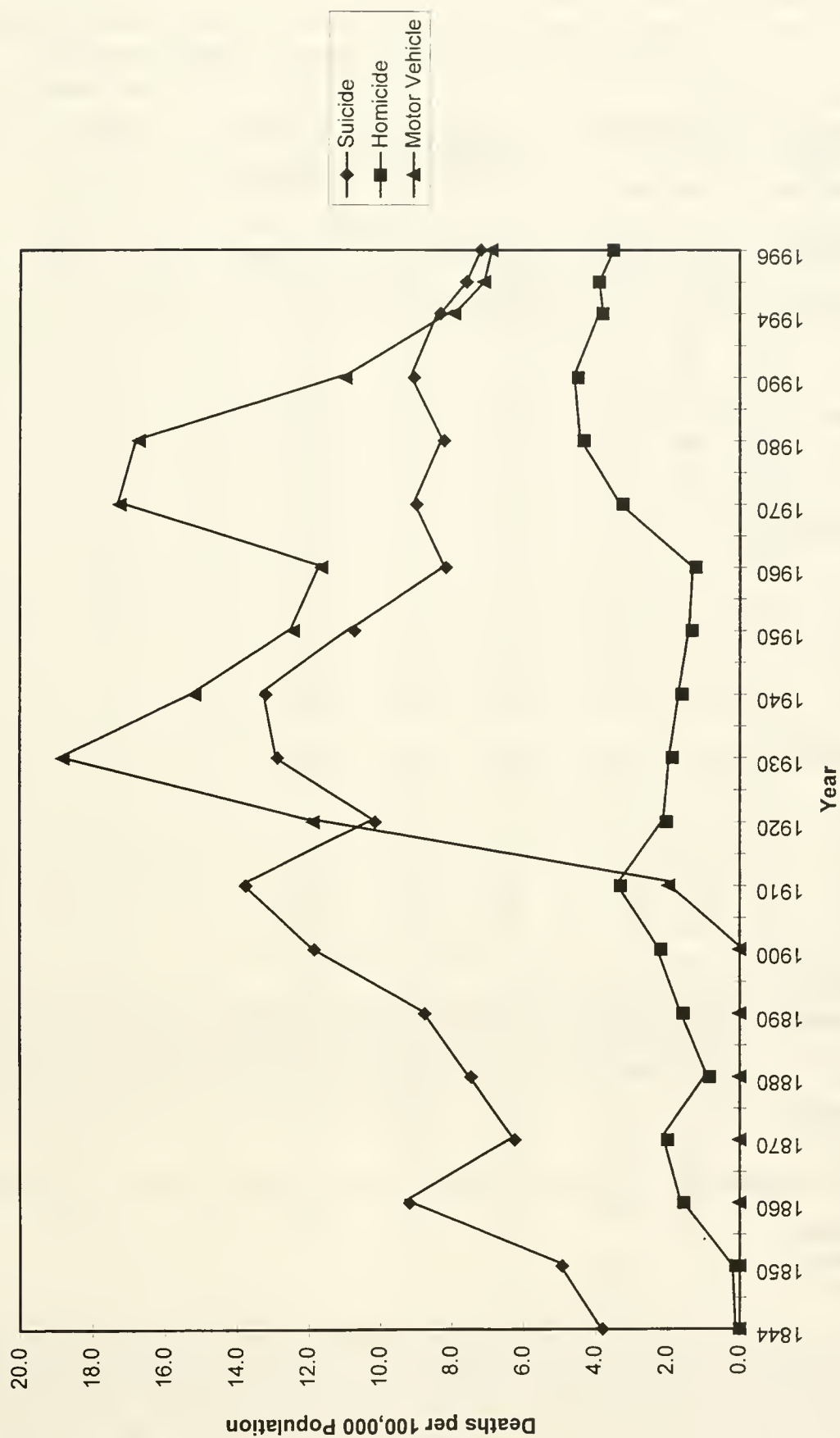


Table C-10. Injury Deaths by Sex, Age, Race and Hispanic Ethnicity: Numbers, Age-Adjusted, and Age-Specific Rates¹, Massachusetts: 1996

Cause of Death (ICD-9 Code)	All Injuries (E800-E999)		Motor Vehicle² (E810-E825)		Suicide (E950-E959)		Homicide³ (E960-E969)		Other Injuries⁴ (E800-E809, E826-E949, E970-E999)	
Age/Sex	#⁵	Rate	#	Rate	#	Rate	#	Rate	#	Rate
All Persons	2,262	29.7	450	6.9	483	7.2	191	3.5	1138	12.1
<1 ⁶	6	7.5	1	-- ⁷	0	0.0	3	--	2	--
1-14	68	6.1	15	1.3	3	--	14	1.3	36	3.2
15-24	293	37.8	116	15.0	53	6.8	72	9.3	52	6.7
25-44	767	36.7	128	6.1	228	10.9	70	3.3	341	16.3
45-64	369	29.5	72	5.8	130	10.4	23	1.8	144	11.5
65+	755	88.6	118	13.9	68	8.0	9	1.1	560	65.8
All Females	735	14.5	150	4.1	103	2.8	50	1.7	432	5.9
<1	2	--	1	--	0	0.0	1	--	0	0.0
1-14	21	3.9	7	1.3	0	0.0	4	--	10	1.8
15-24	46	11.9	27	7.0	3	--	13	3.4	3	--
25-44	178	16.9	35	3.3	49	4.7	21	2.0	73	6.9
45-64	102	15.7	28	4.3	32	4.9	7	1.1	35	5.4
65+	386	74.1	52	10.0	19	3.6	4	--	311	59.7
All Males	1,527	45.9	300	9.9	380	11.8	141	5.3	706	18.9
<1	4	--	0	0.0	0	0.0	2	--	2	--
1-14	47	8.2	8	1.4	3	--	10	1.7	26	4.5
15-24	247	63.2	89	22.8	50	12.8	59	15.1	49	12.5
25-44	589	56.7	93	9.0	179	17.2	49	4.7	268	25.8
45-64	267	44.4	44	7.3	98	16.3	16	2.7	109	18.1
65+	369	111.6	66	20.0	49	14.8	5	1.5	249	75.3
Race/Sex										
All Whites	2,070	29.3	417	7.2	461	7.6	120	2.4	1,072	12.1
Females	691	14.5	138	4.2	97	2.9	41	1.6	415	5.9
Males	1,379	45.1	279	10.3	364	12.6	79	3.3	657	19.0
All Blacks	145	34.9	25	6.1	9	1.9	64	15.0	47	11.9
Females	29	12.6	8	3.8	0	0.0	7	3.0	14	5.8
Males	116	59.1	17	8.6	9	4.1	57	27.5	33	18.9
All Hispanics⁸	119	34.0	26	7.7	16	4.5	24	6.4	53	15.5
Females	27	14.9	11	6.9	3	--	4	--	9	4.4
Males	92	53.9	15	8.1	13	7.4	20	10.8	44	27.5

¹ Number of deaths per 100,000 persons in each age group; rates for all rows except the age group rows are age adjusted. ² Motor vehicle deaths to occupants, pedestrians, motorcyclists and bicyclists. ³ The NCHS categories for 72 selected causes of death combine Homicide (ICD-9 E960-E969) and Legal Intervention (ICD-9 E970-E978). In addition to 224 homicides there was one death caused by legal intervention to a white male, age 25-44, which is included under "Other Injury". ⁴ Other Injuries also includes deaths from drowning, fire and falls, as well as deaths of undetermined intent (deaths where investigation has not determined whether the injuries were accidental or purposely inflicted). ⁵ Column sum may not equal total because age or race of some decedents was not known. ⁶ The denominator used in this age group is the number of 1996 resident births. ⁷ Calculations based on fewer than five events are excluded. ⁸ Persons of Hispanic ethnicity are also included in the race categories, consistent with the US Census population classification.

Table C-11. AIDS¹ and HIV-Related² Deaths³ by Sex and Race/Ethnicity, Massachusetts: 1987-1996⁴

Year		Total ⁵	Place of Occurrence				Sex	
			At Home	Hospital	Out of State	Hospice/ Nursing Home/Other	Female	Male
1987	#	241	26	207	5	3	32	209
	%	100.0	10.8	85.9	2.1	-	13.3	86.7
1988	#	315	67	234	7	7	34	281
	%	100.0	21.3	74.3	2.2	2.2	10.8	89.2
1989	#	404	79	313	7	5	45	359
	%	100.0	19.6	77.5	1.7	1.2	11.1	88.9
1990	#	447	90	284	9	64	57	390
	%	100.0	20.1	63.5	2.1	14.3	12.8	87.2
1991	#	632	159	338	4	131	97	535
	%	100.0	25.2	53.5	-	20.7	15.4	84.6
1992	#	701	171	394	14	122	96	605
	%	100.0	24.4	56.2	2.0	17.4	13.7	86.3
1993	#	777	218	413	14	127	114	663
	%	100%	28.1	53.2	1.8	16.3	14.7	85.3
1994	#	938	265	514	13	142	175	763
	%	100%	28.3	54.8	1.4	15.1	18.7	81.3
1995	#	937	303	500	7	127	184	753
	%	100%	32.3	53.4	0.7	13.6	19.6	80.4
1996	#	609	154	336	9	110	115	494
	%	100%	25.3	55.2	1.5	18.1	18.9	81.1

¹ Acquired Immune Deficiency Syndrome. ² Human Immunodeficiency Virus. ³ The deaths reported are cases for which AIDS or HIV-related disease was the underlying cause of death. ⁴ The deaths presented were coded by using the most current ICD-9 classification schedule, which began with 1987 death data. ⁵ ICD Codes: AIDS-042, AIDS-like syndrome-043 and Other HIV infection-044. ⁶ The "Other" category represents Asians and American Indians. ⁷ Persons of Hispanic ethnicity are also included in the race categories, consistent with the US Census population classification.

Table C-11. (continued) AIDS¹ and HIV-Related² Deaths³ by Sex and Race/Ethnicity, Massachusetts: 1987-1996⁴

Year		Age					Race/Ethnicity			
		<15	15-24	25-34	35-44	45 +	White	Black	Other ⁶	Hispanic ⁷
1987	#	5	8	105	78	45	190	50	1	NA
	%	2.1	3.3	43.6	32.3	18.7	78.8	20.8	-	
1988	#	5	12	111	127	60	251	64	0	NA
	%	1.6	3.8	35.2	40.3	19.1	79.7	20.3	0.0	
1989	#	3	16	146	167	72	327	76	1	37
	%	-	4.0	36.1	41.3	17.8	81.0	18.8	-	9.2
1990	#	3	4	147	197	96	352	94	1	50
	%	-	-	32.8	44.1	21.5	78.8	21.0	-	11.2
1991	#	9	19	214	298	92	513	118	1	74
	%	1.4	3.0	33.8	47.2	14.6	81.2	18.7	-	14.4
1992	#	6	5	243	304	143	558	141	2	95
	%	0.8	0.7	34.7	43.4	20.4	79.6	20.1	-	13.6
1993	#	10	5	234	359	157	612	160	5	94
	%	1.3	0.6	30.1	46.2	20.2	78.7	20.6	0.6	12.1
1994	#	7	8	272	464	187	738	193	7	157
	%	0.7	0.9	29.0	49.5	19.9	78.7	20.6	0.7	16.7
1995	#	11	5	272	443	206	709	223	5	155
	%	1.2	0.5	29.0	47.3	22.0	75.7	23.8	0.5	16.5
1996	#	4	8	154	300	143	442	161	6	101
	%	0.7	1.3	25.3	49.3	23.5	72.6	26.4	1.0	16.6

¹ Acquired Immune Deficiency Syndrome. ² Human Immunodeficiency Virus. ³ The deaths reported are cases for which AIDS or HIV-related disease was the underlying cause of death. ⁴ The deaths presented were coded by using the most current ICD-9 classification schedule, which began with 1987 death data. ⁵ ICD Codes: AIDS-042, AIDS-like syndrome-043 and Other HIV infection-044. ⁶ The "Other" category represents Asians and American Indians. ⁷ Persons of Hispanic ethnicity are also included in the race categories, consistent with the US Census population classification.

**Table C-12. AIDS and HIV-Related Deaths by Race and Hispanic Ethnicity,
Persons Ages 25-44, Massachusetts: 1989-1996**

Year	White						Black						Hispanic ¹					
	Total			Female			Male			Total			Female			Male		
	#	Rate ²	Rate	#	Rate	#	#	Rate	#	#	Rate	#	#	Rate	#	#	Rate	#
1989	221	12.2	1.6	15	23.1	206	17	56.3	60	31.1	43	82.9	32	36.0	6	13.3	26	59.4
1990	270	14.7	2.4	22	27.2	248	23	65.4	73	40.4	50	91.6	40	42.4	4	3	36	77.1
1991	412	22.2	5.5	51	39.5	361	28	84.2	99	46.9	71	123.0	55	55.6	16	32.0	39	79.3
1992	441	23.8	5.2	49	42.8	392	26	84.9	105	41.6	79	129.2	79	75.9	15	28.7	64	123.7
1993	467	25.2	6.4	60	44.3	407	31	93.9	122	47.4	91	141.0	76	69.8	19	34.8	57	105.0
1994	578	31.1	10.3	97	52.2	481	39	111.6	152	57.2	113	166.3	127	111.6	34	59.7	93	263.6
1995	552	29.6	10.1	95	49.5	457	47	111.7	159	66.2	112	157.0	124	104.5	34	57.3	90	151.5
1996	336	18.0	5.7	54	30.4	282	40	76.1	113	54.2	73	97.7	85	68.8	24	38.9	61	98.5

¹ Persons of Hispanic ethnicity are also included in the race categories, consistent with the US Census population classification. ² Number of deaths per 100,000 residents in the specified population group. **PLEASE NOTE: DIFFERENCES BETWEEN THESE RATES AND PREVIOUSLY PUBLISHED DATA REFLECT AGE, RACE AND SEX UPDATES IN POPULATION ESTIMATES FOR 1991-1995.** ³ Calculations based on fewer than five events are excluded.

Table C-13A. Medical Examiner Certified Deaths by Cause, Race, Sex and Age, Massachusetts Occurrence: 1996

Age	Race/Sex	Total Deaths Certified by Medical Examiner	Motor Vehicle Injuries (E810-E825)	Suicide (E950-E959)	Homicide (E960-E969)	Legal Intervention/ Undeter. Injury (E970-E999)	All Other Injuries (E800-E809, E826-E949)	Non-violent Causes (000-779)	Ill-Defined & Unknown Causes (780-799)
TOTAL ¹	White M	2,501	269	371	78	250	236	1,253	44
	F	1,124	135	102	41	63	105	645	33
	Black M	207	17	10	56	15	13	82	14
	F	81	7	0	8	6	7	44	9
	Other M	38	5	7	4	1	9	10	2
< 1	F	17	5	4	1	1	1	5	0
	Total	3,974	438	495	188	340	371	2,039	103
1-14	White M	22	0	0	2	0	1	8	11
	F	24	1	0	1	0	1	4	17
	Black M	13	0	0	1	0	1	3	8
	F	5	0	0	0	0	0	0	5
	Other M	0	0	0	0	0	0	0	0
15-19	F	0	0	0	0	0	0	0	0
	Total	64	1	0	4	0	3	15	41
1-14	White M	52	11	3	7	1	18	11	1
	F	29	10	0	4	0	7	6	2
	Black M	6	0	0	1	0	3	1	1
	F	6	1	0	0	0	4	0	1
	Other M	5	0	0	0	0	5	0	0
15-19	F	1	0	0	0	0	0	1	0
	Total	99	22	3	12	1	37	19	5
15-19	White M	90	34	24	7	8	10	7	0
	F	26	13	3	6	0	0	3	1
	Black M	21	1	1	16	0	1	1	1
	F	2	1	0	0	1	0	0	0
	Other M	3	0	0	2	0	1	0	0
15-19	F	1	0	0	1	0	0	0	0
	Total	143	49	28	32	9	12	11	2

¹ Total includes two white males of unknown age, one black male of unknown age and race, and one female < 1 year of unknown race.

Table C-13A (continued): Medical Examiner Certified Deaths by Cause, Race, Sex and Age, Massachusetts Occurrence: 1996

Age	Race/Sex	Total Deaths Certified by Medical Examiner	Motor Vehicle Injuries (E810-E825)	Suicide (E950-E959)	Homicide (E960-E969)	Legal Intervention/ Undeter. Injury (E970-E999)	All Other Injuries (E800-E809, E826-E949)	Non-violent Causes (000-779)	Ill-Defined & Unknown Causes (780-799)
20-29	White M	279	77	71	27	37	20	36	11
	F	66	17	9	11	12	0	14	3
	Black M	39	8	4	18	1	3	3	2
	F	8	1	0	4	0	0	3	0
	Other M	9	1	2	1	0	1	3	0
30-39	F	3	1	1	0	0	0	1	0
	Total	404	105	87	61	50	24	60	17
	White M	412	37	97	15	109	34	112	8
	F	119	13	27	9	30	6	32	2
	Black M	32	3	0	12	6	1	9	1
40-49	F	13	1	0	1	2	1	7	1
	Other M	6	1	1	1	0	2	1	0
	F	3	1	0	0	0	1	1	0
	Total	585	56	125	38	147	45	162	12
	White M	492	27	68	9	77	34	270	7
50-59	F	152	14	28	4	15	12	75	4
	Black M	26	2	3	4	3	1	12	1
	F	14	0	0	1	3	0	8	2
	Other M	8	1	3	0	1	0	2	1
	F	3	1	1	0	1	0	0	0
60-69	Total	695	45	103	18	100	47	367	15
	White M	324	17	45	5	9	19	225	4
	F	107	14	14	3	3	8	64	1
	Black M	24	0	0	2	4	2	16	0
	F	9	1	0	1	0	0	7	0
70-79	Other M	4	2	1	0	0	0	1	0
	F	0	0	0	0	0	0	0	0
	Total	468	34	60	11	16	29	313	5

Table C-13A (continued). Medical Examiner Certified Deaths by Cause, Race, Sex and Age, Massachusetts Occurrence: 1996

Age	Race/Sex	Total Deaths Certified by Medical Examiner	Motor Vehicle Injuries (E810-E825)	Suicide (E950-E959)	Homicide (E960-E969)	Legal Intervention/ Undeter. Injury (E970-E999)	All Other Injuries (E800-E809, E826-E949)	Non-violent Causes (000-779)	Ill-Defined & Unknown Causes (780-799)
60-69	White M	286	19	21	4	3	29	209	1
	F	112	14	8	1	3	7	78	1
	Black M	28	2	1	2	1	1	21	0
	F	7	1	0	0	0	0	6	0
	Other M	0	0	0	0	0	0	0	0
70-79	F	1	1	0	0	0	0	0	0
	Total	434	37	30	7	7	37	314	2
	White M	313	28	29	1	3	32	219	1
	F	219	23	7	1	0	22	164	2
	Black M	16	1	0	0	0	0	15	0
80 +	F	7	0	0	0	0	1	6	0
	Other M	2	0	0	0	0	0	2	0
	F	4	1	1	0	0	0	2	0
	Total	561	53	37	2	3	55	408	3
	White M	231	19	13	1	3	39	156	0
80 +	F	270	16	6	1	0	42	205	0
	Black M	2	0	1	0	0	0	1	0
	F	10	1	0	1	0	1	7	0
	Other M	1	0	0	0	0	0	1	0
	F	1	0	1	0	0	0	0	0
80 +	Total	515	36	21	3	3	82	370	0

**Figure C-7. Proportion of Deaths Certified by Medical Examiner
for Selected Causes of Death, Massachusetts Occurrence
Deaths: 1996**

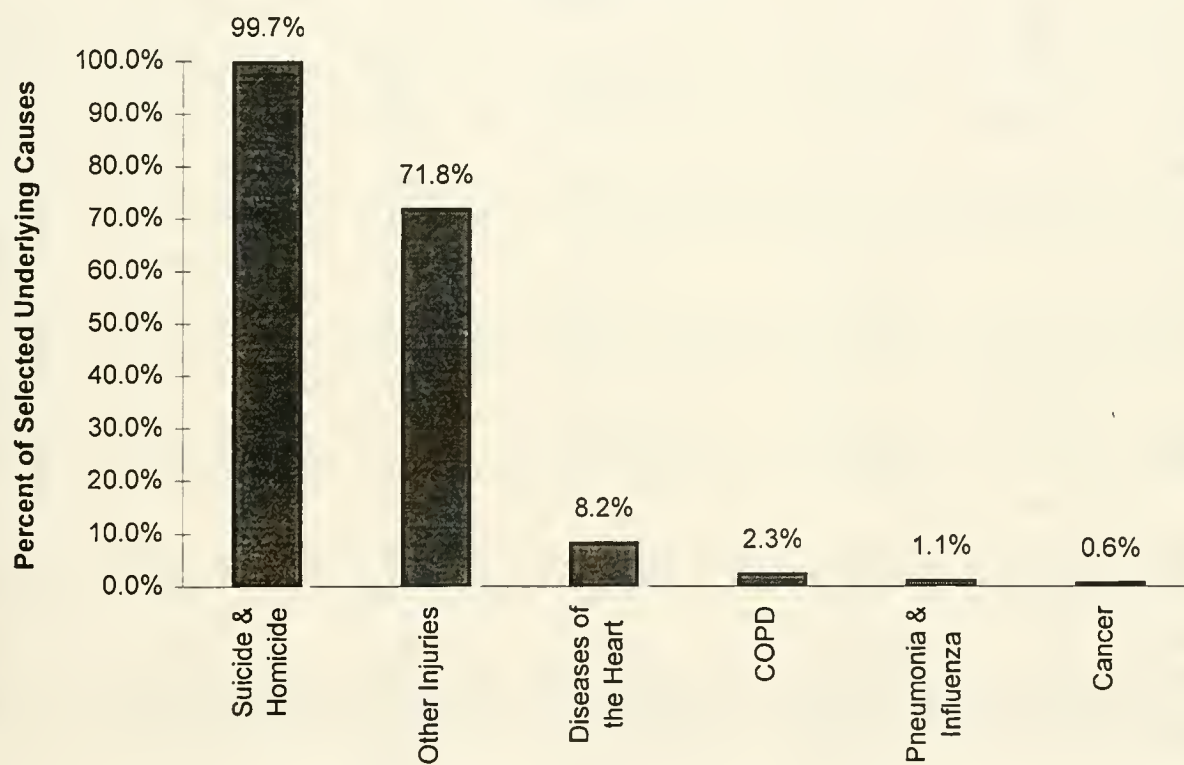


Table C-13B. Medical Examiner Certified Deaths by County, Massachusetts Occurrence: 1996

County		Population	Occurrence Deaths	M.E. Certified ¹	Referred--Not Certified By M.E. ¹	Natural Cause Deaths Certified by M.E. ²
TOTAL	#	6,163,046	56,023	3,974	9,159	2,048
	%	100.0	100.0	7.1	16.3	51.5
	Rank	--	--	--	--	--
Barnstable	#	202,603	2,389	228	328	151
	%	3.3	4.3	9.5	13.7	66.2
	Rank	9	9	3	10	1
Berkshire	#	134,856	1,676	114	231	59
	%	2.2	3.0	6.8	13.8	51.7
	Rank	11	10	10	9	9
Bristol	#	522,702	4,626	335	715	182
	%	8.5	8.2	7.2	15.5	54.3
	Rank	6	7	7	8	7
Dukes	#	12,833	99	19	4	12
	%	0.2	0.2	19.2	4.0	63.2
	Rank	13	13	1	13	2
Essex	#	681,587	6,055	462	678	280
	%	11.0	10.8	7.6	11.2	60.5
	Rank	3	4	6	12	3
Franklin	#	72,385	539	54	61	28
	%	1.2	1.0	10.0	11.3	51.9
	Rank	12	12	2	11	8
Hampden	#	456,437	4,818	308	984	133
	%	7.4	8.6	6.4	20.4	43.2
	Rank	7	6	11	1	11
Hampshire	#	154,723	952	69	176	35
	%	2.5	1.7	7.2	18.5	50.7
	Rank	10	11	7	3	10
Middlesex	#	1,425,782	11,006	639	1,909	355
	%	23.1	19.6	5.8	17.3	55.5
	Rank	1	1	13	5	5
Nantucket	#	6,511	70	5	0	1
	%	0.1	0.1	7.1	0.0	20.0
	Rank	14	14	9	14	14
Norfolk	#	626,123	4,980	281	813	165
	%	10.2	8.9	5.6	16.3	58.7
	Rank	5	5	14	6	4
Plymouth	#	455,044	3,363	279	587	155
	%	7.4	6.0	8.3	17.4	55.5
	Rank	7	8	5	4	5
Suffolk	#	669,389	8,524	748	1,372	316
	%	10.9	15.2	8.8	16.1	42.2
	Rank	4	2	4	7	12
Worcester	#	742,071	6,926	433	1,301	176
	%	12.0	12.4	6.2	18.8	40.5
	Rank	2	3	12	2	13

¹ The percentages and ranks in the Medical Examiner Certified Deaths column and the Referred--Not Certified by Medical Examiner column are based on the totals in the Occurrence Deaths column. ² The percentages and ranks of natural cause deaths certified by medical examiners are based on the total number of medical examiner certified deaths for each county.

Table C-14A. Selected Causes of Death by Municipality, 1996

MUNICIPALITY	Total Deaths	Age Adjusted Death Rate ¹	Heart Disease	Total Cancer	Lung Cancer	Breast Cancer ²	Stroke	Motor Vehicle	Homicide	Pneumonia & Influenza	COPD ³	Diabetes	Suicide
STATE TOTAL	55,187	439.6	16,792	13,920	3,686	1,150	3,346	450	191	2,792	2,433	1,356	483
ABINGTON	137	471.6	43	18	5	1	7	1	0	10	10	2	3
ACTON	95	352.0	25	27	5	4	10	1	0	4	2	0	0
ACUSHNET	88	407.6	32	20	6	1	5	3	0	3	3	4	0
ADAMS	125	542.8	47	31	8	4	9	0	0	8	3	2	4
AGAWAM	290	446.9	76	64	17	5	14	5	0	26	12	4	3
ALFORD	9	493.7	3	3	2	0	1	1	0	0	0	0	0
AMESBURY	145	465.5	49	31	4	5	13	0	0	6	6	4	0
AMHERST	105	295.1	25	24	7	5	8	0	0	4	7	3	0
ANDOVER	212	426.5	60	47	8	4	12	1	1	15	11	8	2
ARLINGTON	523	402.1	150	126	30	14	44	1	0	28	24	8	3
ASHBURNHAM	31	535.8	17	5	1	0	0	0	0	3	0	0	1
ASHBY	21	429.8	9	7	4	0	1	0	0	1	0	0	0
ASHFIELD	7	135.3	2	1	0	0	0	0	0	1	1	0	0
ASHLAND	68	380.3	15	27	5	1	3	0	0	6	3	2	0
ATHOL	143	504.3	50	24	8	0	13	0	0	8	7	3	2
ATTLEBORO	356	463.7	121	77	16	6	22	3	1	16	19	6	4
AUBURN	157	406.3	55	35	12	1	3	0	0	10	5	8	1
AVON	47	437.2	15	13	3	2	3	2	0	1	1	6	0
AYER	50	393.5	8	14	4	0	1	0	0	4	1	0	1
BARNSTABLE	485	378.7	118	123	32	5	40	1	1	11	27	17	5
BARRE	43	629.3	12	11	2	0	2	2	0	1	3	1	2
BECKET	17	657.7	7	5	2	0	1	0	0	0	1	0	0
BEDFORD	110	389.4	31	23	3	3	4	2	0	11	8	2	2
BELCHERTOWN	66	340.5	23	13	3	1	4	3	0	3	3	4	1
BELLINGHAM	84	507.2	29	28	7	4	1	3	0	4	4	2	0
BELMONT	221	295.3	57	66	16	7	20	0	0	19	6	6	3
BERKLEY	22	397.9	6	5	3	0	1	0	0	1	3	0	0
BERLIN	13	340.6	7	1	0	0	0	1	0	0	0	0	0
BERNARDSTON	20	421.2	7	4	1	0	2	1	0	1	0	0	1
BEVERLY	367	402.0	119	74	14	9	17	4	0	27	24	6	4
BILLERICA	226	526.6	58	62	20	4	9	5	0	15	15	11	6
BLACKSTONE	52	376.4	20	13	6	0	2	1	0	3	0	1	2
BLANDFORD	10	498.9	4	2	0	0	0	0	0	0	0	0	0
BOLTON	15	402.6	5	5	0	3	2	0	0	1	0	0	0
BOSTON	4682	529.0	1221	1173	312	101	245	27	56	256	156	94	47
BOURNE	176	460.8	60	48	13	2	6	0	2	4	8	8	4

Table C-14A. (continued) Selected Causes of Death by Municipality, 1996

MUNICIPALITY	Total Deaths	Age Adjusted Death Rate ¹	Heart Disease	Total Cancer	Lung Cancer	Breast Cancer ²	Stroke	Motor Vehicle	Homicide	Pneumonia & Influenza	COPD ³	Diabetes	Suicide
BOXBOROUGH	5	193.1	3	1	0	0	0	0	0	0	0	0	0
BOXFORD	30	285.4	12	9	2	0	2	0	0	1	0	0	0
BOYLSTON	27	420.6	14	7	2	0	1	0	0	0	0	1	0
BRAINTREE	429	488.1	123	100	28	9	20	3	1	25	16	15	3
BREWSTER	115	307.7	25	33	7	3	10	0	0	4	8	3	0
BRIDGEWATER	135	451.8	42	32	6	1	10	0	0	6	9	9	3
BRIMFIELD	15	250.4	3	7	1	0	1	0	1	1	0	1	0
BROCKTON	880	525.9	273	211	68	18	35	5	9	48	51	15	8
BROOKFIELD	27	400.1	6	12	2	1	0	0	0	0	1	1	0
BROOKLINE	436	289.6	111	131	24	14	22	2	0	33	17	9	2
BUCKLAND	16	695.1	5	5	2	0	2	0	0	0	0	1	1
BURLINGTON	134	414.7	26	52	15	6	8	3	1	2	5	3	1
CAMBRIDGE	636	396.8	160	156	45	12	42	5	1	27	25	23	8
CANTON	236	506.3	85	64	14	3	15	2	0	12	9	7	2
CARLISLE	17	376.5	2	6	0	1	1	0	0	1	2	0	0
CARVER	79	374.0	29	11	4	1	2	4	0	2	6	1	1
CHARLEMONT	12	600.7	2	6	1	0	1	0	0	2	1	0	0
CHARLTON	80	531.3	27	11	4	1	6	2	0	7	5	3	0
CHATHAM	113	364.8	32	30	13	1	8	2	0	2	7	3	0
CHELMSFORD	220	331.6	77	53	13	5	21	3	0	3	8	5	0
CHELSEA	298	600.0	95	60	23	3	20	1	3	19	16	6	3
CHESHIRE	21	312.2	7	6	1	0	2	0	0	1	3	0	0
CHESTER	7	865.1	4	1	1	0	1	0	0	1	0	0	0
CHESTERFIELD	10	576.6	5	1	0	0	1	2	0	0	0	0	0
CHICOPEE	647	488.7	227	147	43	12	31	5	1	36	29	16	7
CHILMARK	1	41.6	0	1	0	0	0	0	0	0	0	0	0
CLARKSBURG	13	351.9	6	1	0	0	1	0	0	0	0	0	0
CLINTON	155	501.0	52	36	12	3	4	0	0	9	7	6	0
COHASSET	61	344.7	16	18	5	1	5	1	0	3	4	1	1
COLRAIN	14	596.6	7	2	0	0	0	0	0	1	1	0	0
CONCORD	160	263.9	47	32	8	4	16	3	0	19	9	2	0
CONWAY	8	320.9	2	1	0	0	0	0	0	1	2	0	0
CUMMINGTON	2	93.4	0	1	0	0	0	0	0	0	0	0	0
DALTON	73	458.2	17	21	8	1	2	1	0	6	5	3	0
DANVERS	242	383.4	93	60	25	0	19	2	0	7	7	1	1
DARTMOUTH	262	343.9	93	75	17	4	15	4	1	4	8	8	2
DEDHAM	227	413.2	66	69	16	6	14	1	0	9	14	6	1
DEERFIELD	32	271.6	9	10	4	1	3	0	0	0	2	1	0

Table C-14A. (continued) Selected Causes of Death by Municipality, 1996

MUNICIPALITY	Total Deaths	Age Adjusted Death Rate ¹	Heart Disease	Total Cancer	Lung Cancer	Breast Cancer ²	Stroke	Motor Vehicle	Homicide	Pneumonia & Influenza	COPD ³	Diabetes	Suicide
DENNIS	207	346.3	53	71	15	6	14	1	0	7	11	4	2
DIGHTON	52	549.2	17	14	3	0	3	2	1	0	2	1	1
DOUGLAS	37	464.9	13	12	2	1	2	1	0	1	0	0	2
DOVER	20	214.3	4	5	1	1	0	0	0	0	0	0	0
DRACUT	223	523.9	60	61	21	8	14	1	0	11	16	9	1
DUDLEY	66	402.6	22	20	8	2	4	1	0	3	2	1	0
DUNSTABLE	7	299.8	3	2	1	0	1	0	0	0	0	0	0
DUXBURY	107	333.0	24	37	8	4	7	1	0	9	1	1	1
EAST	90	548.5	28	23	7	0	6	1	0	7	8	1	1
BRIDGEWATER													
EAST	18	418.5	7	4	0	0	3	0	0	1	0	0	0
BROOKFIELD													
EAST	153	314.1	51	31	6	3	10	2	0	8	7	3	1
LONGMEADOW													
EASTHAM	59	436.0	12	23	4	3	3	0	0	3	4	1	0
EASTHAMPTON	158	543.5	65	38	8	6	7	3	0	4	4	2	5
EASTON	140	444.2	46	35	7	2	8	1	0	8	4	3	1
EDGARTOWN	28	450.7	6	8	0	1	1	1	0	0	1	0	0
EGREMONT	12	590.7	6	4	2	1	1	0	0	0	0	0	0
ERVING	11	344.2	2	4	0	1	2	1	0	1	0	0	0
ESSEX	35	898.8	8	13	2	1	4	0	0	0	0	2	0
EVERETT	381	499.0	110	96	20	11	24	3	1	16	14	7	3
FAIRHAVEN	233	570.8	87	51	13	1	14	2	2	9	8	3	1
FALL RIVER	1139	526.8	412	258	77	13	81	5	4	40	44	29	7
FALMOUTH	371	429.1	97	99	24	5	22	2	1	15	34	8	4
FITCHBURG	420	504.0	117	102	36	8	23	2	5	28	20	15	3
FLORIDA	4	173.9	2	1	1	0	1	0	0	0	0	0	0
FOXBOROUGH	111	389.4	25	37	10	6	7	0	3	4	8	2	1
FRAMINGHAM	526	363.5	150	131	32	16	32	2	1	37	17	10	5
FRANKLIN	158	471.1	40	49	22	5	11	3	0	6	11	2	3
FREETOWN	50	437.4	16	15	2	1	1	0	0	3	1	2	0
GARDNER	240	450.9	97	55	7	7	14	4	1	15	10	5	1
GAY HEAD	1	92.3	0	1	0	0	0	0	0	0	0	0	0
GEORGETOWN	59	642.7	18	16	4	3	3	0	0	4	3	4	1
GILL	9	327.1	3	1	0	0	0	0	0	1	0	0	0
GLOUCESTER	298	410.0	76	81	20	10	20	2	0	10	12	9	2
GOSHEN	5	247.4	3	0	0	0	1	0	0	0	0	0	0
GOSNOLD	1	228.1	1	0	0	0	0	0	0	0	0	0	0
GRAFTON	81	353.5	20	19	5	2	4	2	0	5	2	4	0

Table C-14A. (continued) Selected Causes of Death by Municipality, 1996

MUNICIPALITY	Total Deaths	Age Adjusted Death Rate ¹	Heart Disease	Total Cancer	Lung Cancer	Breast Cancer ²	Stroke	Motor Vehicle	Homicide	Pneumonia & Influenza	COPD ³	Diabetes	Suicide
GRANBY	46	422.4	17	10	4	1	7	0	0	1	1	4	0
GRANVILLE	8	339.4	3	2	1	0	0	0	0	0	0	0	1
GREAT	124	570.0	40	29	2	4	12	1	0	3	5	6	1
BARRINGTON													
GREENFIELD	235	562.2	75	46	10	2	14	1	0	18	11	5	2
GROTON	34	334.3	11	9	1	1	0	0	1	3	2	1	1
GROVELAND	35	501.3	16	7	2	2	0	0	0	1	2	0	0
HADLEY	45	408.7	17	8	3	1	2	1	0	0	1	3	0
HALIFAX	73	464.4	29	18	6	1	2	0	0	3	6	2	0
HAMILTON	40	291.6	14	12	4	2	0	0	0	0	3	2	0
HAMPDEN	54	676.2	14	17	5	2	2	0	0	1	6	2	0
HANCOCK	12	743.7	2	2	0	0	2	0	0	2	1	2	0
HANOVER	83	467.7	25	28	7	5	2	1	0	2	4	3	0
HANSON	50	367.9	14	14	4	1	5	0	1	2	1	0	1
HARDWICK	25	546.6	10	4	1	0	2	0	0	2	1	1	0
HARVARD	37	578.1	5	12	4	3	3	0	0	4	1	3	0
HARWICH	168	401.7	48	52	13	12	7	1	0	4	12	4	2
HATFIELD	27	360.3	10	6	2	1	3	0	0	1	1	2	1
HAVERHILL	563	524.2	213	116	31	8	33	5	0	23	29	15	5
HAWLEY	3	686.0	1	2	1	0	0	0	0	0	0	0	0
HEATH	4	337.6	4	0	0	0	0	0	0	0	0	0	0
HINGHAM	176	394.2	62	42	8	5	6	1	0	9	6	2	0
HINSDALE	17	420.5	5	4	2	0	2	1	0	1	0	1	0
HOLBROOK	114	505.8	36	31	12	3	4	1	1	3	6	3	1
HOLDEN	110	294.0	31	22	4	1	4	1	0	7	5	1	1
HOLLAND	9	293.6	4	0	0	0	1	0	0	0	1	1	0
HOLLISTON	67	365.1	21	14	2	0	4	2	0	6	2	1	0
HOLYOKE	572	620.8	182	111	37	4	36	3	3	25	18	19	3
HOPEDALE	58	400.5	21	13	1	2	5	0	0	7	5	1	0
HOPKINTON	46	369.5	20	9	2	2	3	0	0	2	0	2	1
HUBBARDSTON	20	483.9	10	4	1	0	0	0	0	1	1	1	1
HUDSON	136	442.4	39	42	12	3	7	1	0	6	6	3	3
HULL	80	504.2	21	22	7	2	4	0	0	3	5	1	1
HUNTINGTON	14	424.5	4	2	0	0	3	1	0	0	2	0	0
IPSWICH	104	381.7	32	26	6	1	12	0	0	3	5	3	0
KINGSTON	122	457.4	46	29	7	3	10	0	0	4	6	1	1
LAKEVILLE	58	418.6	18	23	5	2	3	1	0	0	2	1	1
LANCASTER	41	277.6	12	10	1	2	3	0	0	3	1	1	0
LANESBOROUGH	18	323.7	7	5	0	2	3	1	0	0	0	1	0

Table C-14A. (continued) Selected Causes of Death by Municipality, 1996

MUNICIPALITY	Total Deaths	Age Adjusted Death Rate ¹	Heart Disease	Total Cancer	Lung Cancer	Breast Cancer ²	Stroke	Motor Vehicle	Homicide	Pneumonia & Influenza	COPD ³	Diabetes	Suicide
LAWRENCE	533	481.3	190	118	35	13	31	5	3	24	21	23	5
LEE	54	399.6	21	13	1	1	3	1	0	1	4	0	1
LEICESTER	76	479.0	25	19	5	2	3	0	0	5	2	4	0
LENOX	84	563.4	29	18	2	3	2	2	0	8	3	5	0
LEOMINSTER	307	390.2	82	93	20	6	13	3	0	25	19	9	4
LEVERETT	7	254.9	2	1	0	0	3	0	0	0	1	0	0
LEXINGTON	305	334.5	77	78	13	6	42	1	0	11	11	7	2
LEYDEN	4	304.1	1	0	0	0	0	0	0	0	0	0	0
LINCOLN	39	323.7	9	14	3	2	3	0	1	1	0	0	0
LITTLETON	61	396.9	18	20	5	3	1	1	0	5	2	2	0
LONGMEADOW	140	330.1	47	29	8	5	12	2	0	8	5	0	1
LOWELL	941	529.7	278	222	63	15	63	7	4	43	49	32	7
LUDLOW	163	444.7	53	36	13	1	11	1	0	10	7	5	2
LUNENBURG	70	375.9	15	27	8	3	3	1	0	5	3	1	0
LYNN	869	548.7	269	207	60	16	51	10	7	51	44	17	11
LYNNFIELD	78	324.2	24	25	6	5	6	0	1	3	3	1	1
MALDEN	479	430.9	145	142	36	10	17	3	1	22	27	18	6
MANCHESTER	47	329.0	14	12	4	1	3	0	0	1	1	0	1
MANSFIELD	92	510.8	24	32	13	1	5	0	0	1	5	4	1
MARBLEHEAD	168	271.4	43	41	9	4	18	0	0	11	10	2	1
MARION	42	396.2	12	7	1	1	5	0	0	0	2	2	2
MARLBOROUGH	290	430.5	87	66	16	4	13	1	0	24	16	9	3
MARSHFIELD	148	515.8	38	50	20	1	14	2	0	5	9	3	0
MASHPEE	74	362.6	19	21	4	3	8	1	0	1	2	3	1
MATTAPOISETT	57	358.0	15	20	7	2	7	1	0	3	1	1	0
MAYNARD	88	463.8	32	23	8	2	4	0	0	4	3	0	0
MEDFIELD	48	316.7	11	21	8	2	1	0	0	3	1	0	1
MEDFORD	620	422.1	185	175	44	19	35	5	3	27	17	10	3
MEDWAY	75	415.7	18	18	5	2	6	1	0	2	7	3	1
MELROSE	285	370.6	108	65	10	8	26	3	0	12	18	6	3
MENDON	27	405.9	2	7	0	3	1	2	0	4	0	1	0
MERRIMAC	31	322.3	14	4	2	0	1	0	0	1	4	0	0
METHUEN	444	487.7	148	124	36	9	23	4	1	22	26	8	1
MIDDLEBOROUGH	177	559.5	49	37	10	3	15	5	1	10	13	1	3
MIDDLEFIELD	3	129.9	1	1	0	0	0	0	0	1	0	0	0
MIDDLETON	37	294.5	14	8	2	0	1	1	0	1	5	0	0
MILFORD	237	483.5	74	52	12	4	14	3	0	14	11	6	6
MILLBURY	131	476.9	38	28	9	4	12	0	0	5	4	5	4
MILLIS	52	510.3	13	17	6	1	4	2	0	1	5	1	0

Table C-14A. (continued) Selected Causes of Death by Municipality, 1996

MUNICIPALITY	Total Deaths	Age Adjusted Death Rate ¹	Heart Disease	Total Cancer	Lung Cancer	Breast Cancer ²	Stroke	Motor Vehicle	Homicide	Pneumonia & Influenza	COPD ³	Diabetes	Suicide
MILLVILLE	8	301.9	2	2	2	0	0	0	0	0	0	0	0
MILTON	248	331.0	85	53	15	3	14	1	0	18	12	8	1
MONROE	1	84.3	0	0	0	0	0	0	0	1	0	0	0
MONSON	72	501.6	30	18	4	1	1	3	0	2	1	0	0
MONTAGUE	99	649.3	34	24	9	1	5	2	1	5	10	4	1
MONTEREY	3	156.6	2	1	0	0	0	0	0	0	0	0	0
MONTGOMERY	9	556.4	5	2	0	0	0	0	0	0	2	0	0
MOUNT	2	503.7	0	2	0	0	0	0	0	0	0	0	0
WASHINGTON													
NAHANT	53	406.6	23	15	4	0	2	0	0	1	1	2	0
NANTUCKET	69	529.2	16	26	6	3	8	0	0	1	1	1	1
NATICK	225	326.5	84	60	18	7	13	1	0	14	9	7	2
NEEDHAM	254	266.6	75	77	14	8	24	1	0	15	8	1	1
NEW ASHFORD	0	0.0	0	0	0	0	0	0	0	0	0	0	0
NEW BEDFORD	1119	474.8	419	204	42	15	78	6	4	36	44	43	12
NEW BRAINTREE	3	252.0	2	1	0	0	0	0	0	0	0	0	0
NEW	9	459.4	2	1	0	0	1	0	0	0	0	0	0
MARLBOROUGH													
NEW SALEM	6	381.6	3	1	1	0	0	0	0	1	0	0	0
NEWBURY	42	428.7	15	11	2	2	2	0	0	0	0	2	0
NEWBURYPORT	174	431.9	57	44	10	5	16	0	0	3	7	3	3
NEWTON	640	295.0	179	174	30	7	46	3	0	51	22	13	5
NORFOLK	38	545.0	10	10	3	0	1	1	0	2	0	1	0
NORTH ADAMS	234	662.3	69	59	12	7	18	1	1	17	9	7	1
NORTH ANDOVER	198	380.9	61	47	5	4	11	1	0	12	3	8	0
NORTH	181	455.8	62	47	15	3	16	1	0	7	7	3	2
ATTLEBORO													
NORTH	37	508.1	10	9	3	0	3	0	0	2	2	2	0
BROOKFIELD													
NORTH READING	75	436.9	23	20	10	1	5	0	1	3	1	3	1
NORTHAMPTON	311	465.2	90	69	17	7	14	3	0	16	21	12	4
NORTHBOROUGH	72	393.1	25	17	4	4	2	0	0	1	2	2	1
NORTHBRIDGE	165	511.7	44	36	12	1	9	2	0	17	11	4	2
NORTHFIELD	18	370.2	7	2	0	0	1	2	0	1	0	1	1
NORTON	104	413.0	43	20	6	0	2	2	0	4	5	1	1
NORWELL	113	608.1	37	29	6	4	7	2	0	5	6	2	0
NORWOOD	291	429.1	95	89	24	7	16	1	0	11	10	6	2
OAK BLUFFS	40	486.0	6	18	3	1	1	0	0	0	3	2	0
OAKHAM	6	210.7	1	1	0	0	0	0	0	2	0	0	1

Table C-14A. (continued) Selected Causes of Death by Municipality, 1996

MUNICIPALITY	Total Deaths	Age Adjusted Death Rate ¹	Heart Disease	Total Cancer	Lung Cancer	Breast Cancer ²	Stroke	Motor Vehicle	Homicide	Pneumonia & Influenza	COPD ³	Diabetes	Suicide
ORANGE	65	446.3	14	18	4	0	5	0	0	0	4	1	1
ORLEANS	75	259.3	20	25	6	4	8	0	0	3	2	1	0
OTIS	10	1550.6	1	3	1	0	1	0	0	1	1	0	1
OXFORD	103	512.7	22	29	7	2	6	3	0	6	7	4	1
PALMER	119	406.1	34	37	9	0	8	1	0	3	3	5	0
PAXTON	27	337.7	7	8	0	0	1	0	0	2	1	1	0
PEABODY	453	395.7	157	105	31	11	30	1	2	25	22	10	3
PELHAM	6	228.1	1	2	1	0	0	0	0	0	1	1	0
PEMBROKE	119	575.8	33	36	10	3	4	2	0	7	5	5	1
PEPPERELL	57	477.5	17	13	3	3	2	1	0	1	5	2	1
PERU	1	277.0	0	0	0	0	0	0	0	0	0	0	0
PETERSHAM	11	439.6	4	2	0	0	1	0	0	0	0	2	1
PHILLIPSTON	15	606.1	5	5	0	0	0	0	0	0	1	0	1
PITTSFIELD	553	478.7	181	134	35	18	39	8	0	23	33	18	3
PLAINFIELD	0	0.0	0	0	0	0	0	0	0	0	0	0	0
PLAINVILLE	59	456.1	21	15	6	2	3	1	0	3	2	0	1
PLYMOUTH	401	459.4	138	101	29	7	20	6	0	20	22	9	4
PLYMPTON	16	488.0	6	6	1	0	1	0	0	0	0	0	0
PRINCETON	16	398.5	3	8	3	0	0	0	0	0	0	1	0
PROVINCETOWN	58	800.4	13	7	3	1	1	0	1	2	5	1	0
QUINCY	920	474.3	257	249	62	20	59	4	5	46	40	12	10
RANDOLPH	291	389.5	107	66	21	6	15	3	1	12	13	7	1
RAYNHAM	101	432.2	40	27	11	0	5	0	0	6	5	2	0
READING	179	309.7	56	48	14	4	10	1	0	18	12	4	0
REHOBOTH	47	308.4	15	11	2	0	4	0	0	1	2	2	1
REVERE	451	496.9	145	117	37	8	18	3	1	19	22	5	2
RICHMOND	13	274.0	5	1	0	0	2	0	0	0	1	0	0
ROCHESTER	31	564.0	11	9	3	1	2	2	0	0	0	1	1
ROCKLAND	154	483.5	51	40	18	5	12	1	0	10	6	7	0
ROCKPORT	89	373.5	30	17	2	0	5	0	0	4	3	1	5
ROWE	4	478.6	1	1	0	0	0	0	0	1	1	0	0
ROWLEY	31	352.0	12	6	1	0	2	0	0	1	0	1	1
ROYALSTON	12	536.1	4	4	0	0	1	0	0	0	0	0	1
RUSSELL	9	346.2	2	3	1	0	1	0	0	0	0	1	0
RUTLAND	20	394.9	6	5	1	0	0	1	0	0	0	0	0
SALEM	405	504.7	116	115	36	12	37	0	1	19	20	7	2
SALISBURY	60	620.2	16	17	2	0	2	0	0	1	4	3	1
SANDISFIELD	2	347.2	0	1	0	0	0	0	0	0	0	0	0
SANDWICH	158	396.5	54	40	7	4	7	5	0	3	7	3	1

Table C-14A. (continued) Selected Causes of Death by Municipality, 1996

MUNICIPALITY	Total Deaths	Total Age Adjusted Death Rate ¹	Heart Disease	Total Cancer	Lung Cancer	Breast Cancer ²	Stroke	Motor Vehicle	Homicide	Pneumonia & Influenza	COPD ³	Diabetes	Suicide
SAUGUS	258	425.0	66	82	20	6	15	2	0	12	10	6	2
SAVOY	4	358.7	1	0	0	0	0	0	0	0	0	0	0
SCITUATE	161	445.8	49	41	12	7	11	0	0	8	9	4	0
SEEKONK	107	407.0	36	28	8	1	7	2	0	2	5	0	1
SHARON	70	217.8	15	23	9	4	4	0	0	5	2	2	1
SHEFFIELD	26	466.6	11	7	1	2	0	0	0	1	0	0	0
SHELBURNE	26	383.5	8	2	1	0	8	1	0	2	1	0	0
SHERBORN	16	215.9	5	8	0	1	0	0	0	0	0	0	1
SHIRLEY	38	431.4	11	13	5	0	1	1	0	0	2	0	1
SHREWSBURY	229	377.8	65	62	10	6	7	4	0	18	10	5	2
SHUTESBURY	6	180.0	2	0	0	0	0	0	0	0	1	0	0
SOMERSET	178	356.0	61	47	17	3	13	1	0	6	11	4	1
SOMERVILLE	601	451.6	185	175	51	11	31	5	2	33	21	14	6
SOUTH HADLEY	167	401.0	55	48	15	3	16	0	0	3	9	3	0
SOUTHAMPTON	36	473.1	12	8	0	0	2	1	0	2	1	0	0
SOUTHBOROUGH	40	398.7	10	11	2	1	3	0	0	4	3	1	0
SOUTHBURIDGE	209	482.1	81	39	8	2	16	2	0	6	3	3	5
SOUTHWICK	52	441.3	17	13	7	0	4	2	0	4	4	1	0
SPENCER	112	541.5	41	36	11	1	3	0	1	3	3	4	1
SPRINGFIELD	1457	547.4	396	367	99	23	74	15	17	78	51	38	11
STERLING	45	444.1	10	17	6	2	2	1	0	1	2	0	1
STOCKBRIDGE	22	327.2	7	5	1	0	0	0	0	1	2	2	0
STONEHAM	212	401.6	64	54	13	3	10	1	2	1	11	4	1
STOUGHTON	238	396.3	67	68	22	4	18	5	0	19	7	6	3
STOW	27	306.5	8	5	3	0	5	1	0	2	1	1	0
STURBRIDGE	64	572.0	17	21	5	0	1	1	2	2	2	4	0
SUDBURY	67	394.7	15	24	5	3	4	1	0	4	3	0	1
SUNDERLAND	15	172.1	6	1	0	0	1	0	0	0	1	2	0
SUTTON	49	458.0	15	10	3	1	3	0	0	5	4	3	0
SWAMPSCOTT	159	320.1	57	30	6	4	15	2	0	9	8	2	1
SWANSEA	126	375.1	44	45	11	7	9	0	0	5	2	4	0
TAUNTON	453	458.4	142	117	40	9	21	5	1	33	14	10	0
TEMPLETON	64	439.6	18	19	7	0	3	3	0	5	3	0	1
TEWKSBURY	203	464.7	58	55	20	6	9	4	1	11	11	7	0
TISBURY	24	412.2	7	4	0	0	2	0	0	0	0	0	1
TOLLAND	1	190.1	0	0	0	0	0	0	0	0	0	0	0
TOPSFIELD	47	371.6	11	15	6	3	4	0	0	3	1	1	0
TOWNSEND	40	529.3	10	8	0	0	6	1	0	1	1	1	1
TRURO	19	335.0	4	3	0	0	2	0	0	1	0	1	1

Table C-14A. (continued) Selected Causes of Death by Municipality, 1996

MUNICIPALITY	Total Deaths	Age Adjusted Death Rate¹	Heart Disease	Total Cancer	Lung Cancer	Breast Cancer²	Stroke	Motor Vehicle	Homicide	Pneumonia & Influenza	COPD³	Diabetes	Suicide
TYNGBOROUGH	56	550.1	10	21	7	1	5	1	1	2	3	1	1
TYRINGHAM	4	121.2	0	1	1	0	0	0	0	0	0	0	0
UPTON	46	546.2	9	13	7	0	3	0	0	3	2	1	1
UXBRIDGE	85	472.1	20	18	5	2	8	4	0	2	6	3	1
WAKEFIELD	245	433.6	69	70	21	6	16	1	0	10	10	5	1
WALES	11	666.4	0	5	3	0	1	1	0	1	0	0	0
WALPOLE	164	666.9	49	35	9	0	7	1	1	10	8	7	5
WALTHAM	503	434.0	148	138	41	10	38	2	1	25	17	13	1
WARE	91	484.1	33	25	2	2	4	1	1	4	3	1	0
WAREHAM	204	473.0	68	53	20	2	8	2	0	12	12	5	2
WARREN	33	392.6	9	10	6	0	1	1	0	3	4	1	0
WARWICK	6	324.4	0	3	0	0	0	0	0	1	0	0	0
WASHINGTON	9	545.7	2	2	0	0	0	0	0	0	0	0	0
WATERTOWN	319	370.9	101	98	21	11	22	1	1	17	10	3	4
WAYLAND	67	244.0	28	16	1	1	0	0	0	6	1	2	1
WEBSTER	195	434.8	66	46	14	6	15	0	0	3	5	9	0
WELLESLEY	187	255.4	60	49	8	4	14	1	0	10	9	2	0
WELLFLEET	29	358.7	7	5	2	0	5	0	0	0	4	1	1
WENDELL	6	674.9	1	2	1	1	0	1	0	0	0	0	0
WENHAM	32	320.7	8	13	3	0	1	0	0	0	0	0	0
WEST BOYLSTON	77	359.4	27	16	4	3	4	1	0	2	6	4	0
WEST	71	452.5	18	21	4	2	6	0	0	1	2	0	3
BRIDGEWATER													
WEST	49	450.4	18	9	3	1	1	2	0	0	5	1	0
BROOKFIELD													
WEST NEWBURY	23	596.7	9	7	0	0	1	0	0	0	0	1	1
WEST	284	412.8	81	85	30	5	13	2	0	8	7	11	4
SPRINGFIELD													
WEST	10	332.1	3	4	1	0	0	0	0	0	0	0	0
STOCKBRIDGE													
WEST TISBURY	15	339.1	1	5	0	0	1	0	0	1	2	0	0
WESTBOROUGH	155	379.6	32	30	9	0	18	1	0	13	9	5	0
WESTFIELD	371	460.7	131	86	18	7	21	2	0	25	12	8	4
WESTFORD	96	403.9	30	26	2	2	7	1	0	5	5	2	0
WESTHAMPTON	6	327.8	2	2	0	0	0	0	0	0	0	1	1
WESTMINSTER	37	304.7	14	9	2	0	2	1	0	0	4	0	0
WESTON	114	349.8	26	32	5	7	10	0	0	9	3	1	0
WESTPORT	114	366.1	38	40	11	4	6	2	0	2	4	3	0
WESTWOOD	145	382.1	44	35	7	3	11	1	1	5	7	3	1

Table C-14A. (continued) Selected Causes of Death by Municipality, 1996

MUNICIPALITY	Total Deaths	Age Adjusted Death Rate ¹	Heart Disease	Total Cancer	Lung Cancer	Breast Cancer ²	Stroke	Motor Vehicle	Homicide	Pneumonia & Influenza	COPD ³	Diabetes	Suicide
WEYMOUTH	499	438.7	161	134	39	10	23	3	1	31	24	11	7
WHATELY	9	257.3	6	1	0	0	0	0	0	0	1	0	0
WHITMAN	77	478.8	19	22	5	3	5	1	0	4	4	2	0
WILBRAHAM	135	462.4	42	29	9	1	8	1	0	8	10	0	0
WILLIAMSBURG	15	305.8	7	4	3	0	0	1	0	1	0	0	1
WILLIAMSTOWN	88	376.8	18	29	8	3	3	1	0	9	7	1	2
WILMINGTON	158	598.7	50	39	10	5	9	2	0	11	3	5	5
WINCHENDON	72	420.9	23	16	6	1	5	0	0	6	4	1	0
WINCHESTER	197	353.5	51	59	16	4	26	0	0	8	5	4	0
WINDSOR	5	306.4	2	0	0	0	0	0	0	1	0	1	1
WINTHROP	218	488.7	74	44	12	6	15	1	3	11	9	3	1
WOBURN	327	430.3	103	86	22	7	17	2	1	20	15	3	0
WORCESTER	1919	548.2	568	422	111	31	82	14	10	120	90	51	12
WORTHINGTON	5	297.9	1	2	1	0	1	0	0	0	0	0	0
WRENTHAM	83	456.0	20	21	5	2	6	0	0	5	4	4	0
YARMOUTH	379	426.7	104	111	30	8	39	4	0	18	16	11	4

¹ All rates are age adjusted using the 1940 US Census standard population. The age-adjusted death rate for Harvard does not reflect the decline in population due to the closing of Ft. Devens. ² Includes only female breast cancer. ³ Chronic Obstructive Pulmonary Disease

Table C-14B. Selected Causes of Death by Community Health Network Area (CHNA)¹, 1996

CHNA (Name and number)	Total Deaths	Age adjusted Death Rate ²	Heart Disease	Total Cancer	Lung Cancer	Breast Cancer ³	Stroke	Motor vehicle	Homicide	Pneumonia & influenza	COPD ⁴	Diabetes	Suicide
STATE TOTAL	55,187	439.6	16,792	13,920	3,686	1,150	3,346	450	191	2,792	2,433	1,356	483
Community Health Network of Berkshire (1)	1578	460.8	503	393	91	46	106	18	1	83	78	49	14
Upper Valley Health Web (Franklin County, 2)	824	439.2	267	173	43	6	62	9	1	46	46	20	12
Greater Holyoke Area (3)	1104	399.1	367	262	66	27	70	15	1	40	52	36	13
Hampshire County Partnership for Health (3,21)	1774	505.4	601	383	112	24	103	12	4	97	68	48	16
Greater Springfield Community Health Network(4)	2793	471.2	802	699	196	45	147	33	17	146	108	65	21
Greater Southbridge Area (5)	1028	440.0	333	258	75	16	62	13	4	38	40	35	7
Community Partners for Health (Milford Area, 6)	1081	440.4	307	271	84	25	65	20	0	68	61	27	18
Community Wellness Coalition (Worcester Area,8)	2834	473.3	850	638	162	50	121	22	10	174	125	84	20
Fitchburg/Gardner Community Health Network(9)	1920	415.1	584	505	135	42	92	22	7	121	92	49	20
Greater Lowell Community Health Network (10)	1972	470.8	574	502	147	41	129	22	6	90	107	67	15
Greater Lawrence Area (11)	1424	437.7	473	344	86	30	78	12	5	74	66	47	8
Greater Haverhill Area (12)	1193	469.9	431	268	60	25	75	5	0	41	55	33	12
Beverly/Gloucester Area (13)	1059	387.7	312	263	61	27	66	6	0	48	49	24	12
North Shore Community Health Network (14)	2685	435.6	848	680	197	58	193	17	11	138	125	48	22
Medford/Malden/Melrose Area (16)	2476	412.6	760	670	168	62	143	17	8	109	110	57	18
Greater Framingham Area (7)	2445	371.8	720	639	166	58	143	16	5	157	103	60	26
Greater Woburn/Concord/Littleton Area (15)	1608	359.2	442	437	100	45	137	15	3	93	62	28	10
Cambridge/Somerville Area (17)	2300	394.9	653	621	163	55	159	12	4	124	86	54	24
West Suburban Health Network(Newton/Walth.18)	2090	326.8	602	579	122	46	157	9	2	124	80	39	9
Blue Hills Community Health Alliance (Quincy, 20)	3575	426.7	1113	930	250	81	199	21	8	188	156	78	29
Greater Brockton Community Health Network (22)	1929	476.7	587	474	139	36	102	17	10	107	102	47	23
South Shore Partners in Prevention(Plymouth,23)	1352	435.2	433	370	114	31	79	17	1	64	66	32	9
Greater Attleboro/Taunton Area (24)	1750	443.7	573	438	132	25	104	21	4	81	82	31	15
Partners for a Healthier Community (Fall River 25)	1557	467.2	555	390	116	27	109	8	4	53	61	40	8
Greater New Bedford Area (26)	2086	445.7	753	454	111	28	132	19	7	70	79	69	20
Cape Cod & Islands CommunityHealth Netwrk(27)	2665	394.2	703	754	182	62	193	18	5	80	154	72	27
Alliance for Community Health (Boston, Chelsea, Revere, Winthrop (19)	6085	503.4	1646	1525	408	132	320	34	63	338	220	117	55

¹ The geographic boundaries of some CHNAs changed in 1997. This table presents 1996 data using the current CHNA boundaries. ² All rates are age adjusted using the 1940 US Census standard population. The age-adjusted death rate for CHNA 9 does not reflect the decline in population due to the closing of Ft. Devens. ³ Includes only female breast cancer. ⁴ Chronic Obstructive Pulmonary Disease.

Table C-14C. Selected Causes of Death by County, 1996

COUNTY NAME	Total Deaths	Age adjusted Death Rate ¹	Heart Disease	Total Cancer	Lung Cancer	Breast Cancer ²	Stroke	Motor Vehicle	Homicide	Pneumonia & influenza	COPD ³	Diabetes	Suicide
BARNSTABLE	2486	392.6	666	691	173	57	180	17	5	78	147	69	25
BERKSHIRE	1578	460.8	503	393	91	46	106	18	1	83	78	49	14
BRISTOL	4964	445.1	1754	1168	320	71	316	39	14	187	196	132	35
DUKES	110	393.7	21	37	3	2	5	1	0	1	6	2	1
ESSEX	6361	431.6	2064	1555	404	140	412	40	16	301	295	152	54
FRANKLIN	643	427.2	204	138	35	6	47	9	1	38	38	15	7
HAMPDEN	4588	481.7	1406	1092	312	69	250	45	22	245	175	115	37
HAMPSHIRE	1118	398.5	371	264	66	27	73	16	1	40	54	36	13
MIDDLESEX	11476	389.9	3352	3063	775	271	764	84	24	622	479	274	95
NANTUCKET	69	529.2	16	26	6	3	8	0	0	1	1	1	1
NORFOLK	5585	388.8	1658	1525	405	132	328	44	14	298	249	127	49
PLYMOUTH	3841	459.9	1198	980	288	85	213	38	11	190	206	81	37
SUFFOLK	5649	526.3	1535	1394	384	118	298	32	63	305	203	108	53
WORCESTER	6719	444.8	2044	1594	424	123	346	67	19	403	306	195	62

¹ All rates are age adjusted using the 1940 US Census standard population. The age-adjusted death rate for Middlesex County does not reflect the decline in population due to the closing of Ft. Devens. ² Includes only female breast cancer. ³ Chronic Obstructive Pulmonary Disease.

TABLE C-15
RESIDENT DEATHS BY CAUSE, SEX, AND RACE
1996

ICD. LIST NUMBER	CAUSE OF DEATH	TOTALS		WHITE		BLACK		OTHER	
		TOT	MAL	FEM	TOT	MAL	FEM	TOT	MAL
*001	139 I. INFECTIVE AND PARASITIC DISEASES	1668	963	705	1429	811	618	221	138
001-009	INFECTIOUS DISEASES	40	15	25	40	15	25	0	0
004	OTHER SALMONELLA INFECTIONS	3	1	2	3	1	2	0	0
008	INTESTINAL INFECTIONS DUE TO OTHER ORGANISMS	31	10	21	31	10	21	0	0
009	ILL-DEFINED INTESTINAL INFECTIONS	6	4	2	6	4	2	0	0
010-018	TUBERCULOSIS	22	9	13	17	7	10	3	1
011	PULMONARY TUBERCULOSIS	14	6	8	11	4	7	2	1
015	TUBERCULOSIS OF BONES & JOINTS	4	2	2	4	2	2	0	0
017	TUBERCULOSIS OF OTHER ORGANS	2	0	2	1	0	1	0	0
018	MILIARY TUBERCULOSIS	2	1	1	1	1	0	0	0
020-027	ZOO NOTIC BACTERIAL DISEASES	1	1	0	1	1	0	0	0
027	OTHER ZOONOTIC BACTERIAL DISEASES	783	319	464	738	296	442	40	18
030-041	OTHER BACTERIAL DISEASES	8	5	3	8	5	3	0	0
031	DISEASES DUE TO OTHER MYCOBACTERIA	5	2	3	5	2	3	0	0
036	MENINGOCOCCAL INFECTION	759	309	450	715	286	429	39	18
038	SEPTICEMIA	4	1	3	4	1	3	0	0
040	OTHER BACTERIAL DISEASES	7	2	5	6	2	4	1	0
041	BACTERIAL INF IN COND CE & OF UNSPECF SITE	609	494	115	442	380	62	161	109
042-044	AIDS, ARC AND ARV	580	470	110	420	361	59	154	104
042	AIDS	4	3	1	3	2	1	1	0
043	ARC, AIDS-LIKE SYNDROME	25	21	4	19	17	2	6	4
044	OTHER HIV INFECTION	14	9	5	14	9	5	0	0
045-049	POLIO MYELITIS AND OTHER ENTEROVIRUS DIS. OF CENTRAL NERVOUS SYSTEM	11	8	3	11	8	3	0	0
046	SLOW VIRUS INFECTION OF CNS	1	1	0	1	1	0	0	0
047	MENINGITIS DUE TO ENTEROVIRUS	2	0	2	2	0	2	0	0
049	OTHER NON-ARTHOPOD-BORNE VIRAL DIS OF CNS	11	2	9	11	2	9	0	0
050-057	VIRAL DISEASES ACCOMPANIED BY EXANTHEM	3	2	1	3	2	1	0	0
052	CHICKENPOX	6	0	6	6	0	6	0	0
053	HERPES ZOSTER	2	0	2	2	0	2	0	0
054	HERPES SIMPLEX	89	51	38	78	46	32	8	3
070-079	OTHER VIRAL DISEASES	74	43	31	63	38	25	8	3
070	VIRAL HEPATITIS	5	3	2	5	3	2	0	0
078	OTHER DIS DUE TO VIRUSES & CHLAMYDIAE	10	5	5	10	5	5	0	0
079	VIRAL INF IN COND CE & OF UNSPECIFIED SITE	1	1	0	1	1	0	0	0
080-088	RICKETTSIOSES AND OTHER ARTHROPOD-BORNE DISEASES	1	1	0	1	1	0	0	0
086	TRYPANOSOMIASIS	1	1	0	1	1	0	0	0
090-099	SYPHILIS AND OTHER VENEREAL DISEASES	1	1	0	1	1	0	0	0
094	NEUROSYPHILIS	1	1	0	1	1	0	0	0
110-118	MYCOSES	59	37	22	58	37	21	1	0
112	CANDIDIASIS	12	7	5	12	7	5	0	0
117	OTHER MYCOSES	47	30	17	46	30	16	1	0
130-136	OTHER INFECTIVE AND PARASITIC DISEASES	24	16	8	15	8	7	1	1
135	SARCIDOSIS	8	5	3	3	1	2	5	4
136	OTHER & UNSPECIFIED INFECTIOUS & PARASITIC DISEASES	16	11	5	12	7	5	3	3
137-139	LATE EFFECTS OF INFECTIOUS AND PARASITIC DISEASES	14	8	6	13	8	5	0	0
137	LATE EFFECTS OF TUBERCULOSIS	5	2	3	4	2	2	0	0
138	LATE EFFECTS OF ACUTE POLIO MYELITIS	6	4	2	6	4	2	0	0

TABLE C-15

1996

ICD. LIST NUMBER	CAUSE OF DEATH I. INFECTIVE AND PARASITIC DISEASES (CONTINUED)	TOTALS			WHITE			BLACK			OTHER		
		TOT	MALE	FEM	TOT	MALE	FEM	TOT	MALE	FEM	TOT	MALE	FE
139	LATE EFFECTS OF OTH INFECT & PARASITIC DISEASES	3	2	1	3	2	1	0	0	0	0	0	0
*140-149	II. NEOPLASMS	14125	7076	7049	13481	6748	6733	499	254	245	144	73	71
140-149	MALIGNANT NEOPLASM OF LIP, ORAL CAVITY AND PHARYNX	170	107	63	154	97	57	12	8	4	4	2	2
140	MALIG NEOPLASM LIP	4	3	1	4	3	1	0	0	0	0	0	0
141	MALIG NEOPLASM TONGUE	49	28	21	45	27	18	4	1	3	0	0	0
142	MALIG NEOP MAJOR SALIVARY GLANDS	13	9	4	13	9	4	0	0	0	0	0	0
143	MALIG NEOPLASM GUM	1	1	0	1	1	0	0	0	0	0	0	0
144	MALIG NEOPLASM FLOOR OF MOUTH	4	2	2	4	2	2	0	0	0	0	0	0
145	MALIG NEOPLASM OTHER & UNSPEC PARTS OF MOUTH	30	16	14	27	15	12	2	1	1	1	0	1
146	MALIG NEOPLASM OROPHARYNX	21	15	6	15	10	5	5	5	0	1	0	1
147	MALIG NEOPLASM NASOPHARYNX	12	11	1	10	9	1	0	0	0	2	2	0
148	MALIG NEOPLASM HYPOPHARYNX	6	4	2	6	4	2	0	0	0	0	0	0
149	MALIG NEOP OTH SITES W/IN LIP, ORAL CAVITY, PHARYNX AND PERITONEUM	30	18	12	29	17	12	1	1	0	0	0	0
150-159	MALIGNANT NEOPLASM OF DIGESTIVE ORGANS	3428	1775	1653	3240	1679	1561	146	77	69	42	19	23
150	MALIG NEOPLASM ESOPHAGUS	319	230	89	304	220	84	14	9	5	1	1	0
151	MALIG NEOPLASM STOMACH	388	226	162	346	205	141	32	19	13	10	2	8
152	MALIG NEOPLASM SMALL INTESTINE INCLUDING DUODENUM	24	15	9	23	15	8	1	0	1	0	0	0
153	MALIG NEOPLASM COLON	1282	593	689	1229	570	659	41	16	25	12	7	5
154	MALIG NEOPLASM RECTUM, RECTOSIGMOID JUNCT, ANUS	281	139	142	272	134	138	8	5	3	1	0	1
155	MALIG NEOPLASM LIVER & INTRAHEPATIC BILE DUCTS	274	188	86	252	171	81	11	10	1	11	7	4
156	MALIG NEOPLASM OF GALLBLADDER & EXTRAHEPATIC BILE DUCTS	108	37	71	103	35	68	3	2	1	2	0	2
157	MALIG NEOPLASM PANCREAS	692	323	369	653	306	347	34	15	19	5	2	3
158	MALIG NEOPLASM RETROPERITONEUM & PERITONEUM	17	6	11	16	5	11	1	1	0	0	0	0
159	MALIG NEOP OTH SITES W/IN DIGESTIVE ORGS/PERITONEUM	43	18	25	42	18	24	1	0	1	0	0	0
160-165	MALIGNANT NEOPLASM OF RESPIRATORY AND INTRATHORACIC ORGANS	3813	2146	1667	3674	2068	1606	103	51	52	35	26	9
160	MALIG NEOPLASM NASAL CAVITIES, MIDDLE EAR, SINUSES	11	5	6	11	5	6	0	0	0	0	0	0
161	MALIG NEOPLASM LARYNX	100	83	17	98	82	16	2	1	1	0	0	0
162	MALIG NEOPLASM TRACHEA, BRONCHUS, LUNG	3686	2047	1639	3549	1970	1579	101	50	51	35	26	9
163	MALIG NEOPLASM PLEURA	7	6	1	7	6	1	0	0	0	0	0	0
164	MALIG NEOPLASM THYMUS, HEART, MEDIASTINUM	9	5	4	9	5	4	0	0	0	0	0	0
170-175	MALIGNANT NEOPLASM OF BONE, CONNECTIVE TISSUE, SKIN, AND BREAST	1539	221	1318	1472	212	1260	51	6	45	16	3	13
170	MALIG NEOPLASM BONE & ARTICULAR CARTILAGE	25	16	9	24	15	9	0	0	0	1	1	0
171	MALIG NEOPLASM CONNECTIVE & OTH SOFT TISSUE	92	40	52	81	35	46	8	4	4	3	1	2
172	MALIG MELANOMA OF SKIN	211	121	90	210	121	89	0	0	0	1	0	1
173	OTHER MALIG NEOPLASM SKIN	52	35	17	49	32	17	2	2	0	1	1	0
174	MALIG NEOPLASM FEMALE BREAST	1150	0	1150	1099	0	1099	41	0	41	10	0	10
175	MALIG NEOPLASM MALE BREAST	9	9	0	9	9	0	0	0	0	0	0	0
179-189	MALIGNANT NEOPLASM OF GENITOURINARY ORGANS	2099	1244	855	2007	1191	816	72	43	29	20	10	10
179	MALIG NEOPLASM UTERUS, PART UNSPECIFIED	59	0	59	55	0	55	3	0	3	1	0	1
180	MALIG NEOPLASM CERVIX UTERI	88	0	88	79	0	79	7	0	7	2	0	2
182	MALIG NEOPLASM BODY OF UTERUS	108	0	108	105	0	105	3	0	3	0	0	0

TABLE C-15 (CONTINUED)

1996

ICD. LIST NUMBER	CAUSE OF DEATH II. NEOPLASMS (CONTINUED)	TOTALS				WHITE				BLACK				OTHER			
		TOT	MALE	FEM		TOT	MALE	FEM		TOT	MALE	FEM		TOT	MALE	FEM	
183	MALIG NEOPLASM OVARY & OTHER UTERINE ADNEXA	350	0	350		332	0	332		12	0	12		6	0	6	
184	MALIG NEOPLASM OTH & UNSPECF FEMALE GENITAL ORGANS	26	0	26		26	0	26		0	0	0		0	0	0	
185	MALIG NEOPLASM PROSTATE	821	821	0		779	779	0		36	36	0		6	6	0	
186	MALIG NEOPLASM TESTIS	15	15	0		15	15	0		0	0	0		0	0	0	
187	MALIG NEOPLASM PENIS & OTHER MALE GENITAL ORGANS	6	6	0		4	4	0		1	1	0		1	1	0	
188	MALIG NEOPLASM BLADDER	347	238	109		338	232	106		5	3	2		4	3	1	
189	MALIG NEOPLASM KIDNEY & OTH & UNSPECF URINARY ORGANS	279	164	115		274	161	113		5	3	2		0	0	0	
190-199	MALIGNANT NEOPLASM OF OTHER AND UNSPECIFIED SITES	1502	761	741		1431	721	710		57	34	23		14	6	8	
190	MALIG NEOPLASM EYE	3	3	0		3	3	0		0	0	0		0	0	0	
191	MALIG NEOPLASM BRAIN	280	173	107		273	171	102		7	2	5		0	0	0	
192	MALIG NEOP OTHER & UNSPECF PARTS NERVOUS SYSTEM	6	2	4		6	2	4		0	0	0		0	0	0	
193	MALIG NEOPLASM THYROID GLAND	27	10	17		27	10	17		0	0	0		0	0	0	
194	MALIG NEOPLASM OTH ENDOCRINE GLANDS & RELATED	16	6	10		15	5	10		0	0	0		1	1	0	
195	MALIG NEOPLASM OTHER & ILL-DEFINED SITES	90	45	45		84	41	43		6	4	2		0	0	0	
199	MALIG NEOPLASM W/O SPECIFICATION OF SITE	1080	522	558		1023	489	534		44	28	16		13	5	8	
200-208	NEOPLASMS OF LYMPHATIC AND HEMATOPOIETIC TISSUE	1369	738	631		1310	702	608		47	29	18		12	7	5	
200	LYMPHOSARCOMA & RETICULOSARCOMA	20	11	9		18	9	9		1	1	0		1	1	0	
201	HODGKIN'S DISEASE	42	27	15		41	26	15		1	1	0		0	0	0	
202	OTHER MALIG NEOP LYMPHOID & HISTIOCYTIC TISSUE	582	316	266		566	308	258		11	5	6		5	3	2	
203	MULTIPLE MYELOMA & IMMUNOPROLIFERATIVE NEOPS	233	115	118		215	105	110		17	10	7		1	0	1	
204	LYMPHOID LEUKEMIA	147	88	59		138	82	56		9	6	3		0	0	0	
205	MYELOID LEUKEMIA	225	117	108		216	111	105		7	5	2		2	1	1	
206	MONOCYTIC LEUKEMIA	3	2	1		3	2	1		0	0	0		0	0	0	
207	OTHER SPECIFIED LEUKEMIA	2	1	1		2	1	1		0	0	0		0	0	0	
208	LEUKEMIA OF UNSPECIFIED CELL TYPE	115	61	54		111	58	53		1	1	0		3	2	1	
210-229	BENIGN NEOPLASMS	31	10	21		27	7	20		4	3	1		0	0	0	
211	BENIGN NEOPLASM OTH PARTS DIGESTIVE SYSTEM	3	1	2		3	1	2		0	0	0		0	0	0	
212	BENIGN NEOP RESPIRATORY & INTRATHORACIC ORGANS	2	0	2		2	0	2		0	0	0		0	0	0	
216	BENIGN NEOPLASM SKIN	1	0	1		1	0	1		0	0	0		0	0	0	
225	BENIGN NEOPLASM BRAIN & OTH PARTS NERVOUS SYSTEM	20	5	15		19	4	15		1	1	0		0	0	0	
226	BENIGN NEOPLASM THYROID GLANDS	1	0	1		0	0	0		1	1	0		0	0	0	
227	BENIGN NEOPLASM OTH ENDOCRINE GLANDS & RELATED	1	1	0		0	0	0		1	1	0		0	0	0	
228	HEMANGIOMA & LYMPHANGIOMA, ANY SITE	2	2	0		1	1	0		1	1	0		0	0	0	
229	BENIGN NEOPLASM OTH & UNSPECIFIED SITES	1	1	0		1	1	0		0	0	0		0	0	0	
235-238	NEOPLASMS OF UNCERTAIN BEHAVIOUR	41	20	21		41	20	21		0	0	0		0	0	0	
237	NEOPLASM OF UNCERT BEHAV ENDOCRINE GLANDS & NERVOUS SYS	5	2	3		5	2	3		0	0	0		0	0	0	
238	NEOPLASM UNCERT BEHAV OTHER & UNSPECF SITES & TISSUES	36	18	18		36	18	18		0	0	0		0	0	0	
239-239	NEOPLASM OF UNSPECIFIED NATURE	133	54	79		125	51	74		7	3	4		1	0	1	
239	NEOPLASMS OF UNSPECIFIED NATURE	133	54	79		125	51	74		7	3	4		1	0	1	

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ICD. LIST NUMBER	CAUSE OF DEATH	TOTALS				WHITE				BLACK				OTHER			
		TOT 1927	MALE 887	FEM 1040		TOT 1817	MALE 832	FEM 985		TOT 95	MALE 44	FEM 51		TOT 15	MALE 11	FEM 4	
*240 279	III. ENDOCRINE, NUTRITIONAL, AND METABOLIC DISEASES	31	5	26		29	5	24		2	0	2		0	0	0	
240-246	DISORDERS OF THYROID GLAND	8	2	6		8	2	6		0	0	0		0	0	0	
242	THYROTOXICOSIS WITH OR W/O GOITER	23	3	20		21	3	18		2	0	2		0	0	0	
244	ACQUIRED HYPOTHYROIDISM	1378	668	710		1297	632	665		71	29	42		10	7	3	
250-259	DISEASES OF OTHER ENDOCRINE GLANDS	1356	662	694		1275	626	649		71	29	42		10	7	3	
250	DIABETES MELLITUS	4	2	2		4	2	2		0	0	0		0	0	0	
251	OTH DISORDERS OF PANCREATIC INTERNAL SECRETION	4	1	3		4	1	3		0	0	0		0	0	0	
252	DISORDERS OF PARATHYROID GLAND	4	4	0		4	4	0		0	0	0		0	0	0	
253	DISORDERS PITUITARY GLAND & HYPOTHALMIC CONTROL	9	2	7		9	2	7		0	0	0		0	0	0	
255	DISORDERS OF ADRENAL GLANDS	1	1	0		1	1	0		0	0	0		0	0	0	
259	OTHER ENDOCRINE DISORDERS	63	21	42		60	19	41		2	1	1		1	1	0	
260-269	NUTRITIONAL DEFICIENCIES	1	1	0		1	1	0		0	0	0		0	0	0	
260	KWASHIORKOR	1	1	0		1	1	0		0	0	0		0	0	0	
261	NUTRITIONAL MARASMUS	59	17	42		56	15	41		2	1	1		1	1	0	
263	OTH & UNSPECIF PROTEIN-CALORIE MALNUTRITION	1	1	0		1	1	0		0	0	0		0	0	0	
265	THIAMINE & NIACIN DEFICIENCY STATES	1	1	0		1	1	0		0	0	0		0	0	0	
269	OTHER NUTRITIONAL DEFICIENCIES	455	193	262		431	176	255		20	14	6		4	3	1	
270-279	OTHER METABOLIC AND IMMUNITY DISORDERS	5	2	3		4	1	3		1	1	0		0	0	0	
271	DISORDERS OF CARBOHYDRATE TRANSPORT & METABOLISM	48	29	19		47	28	19		0	0	0		1	1	0	
272	DISORDERS OF LIPOID METABOLISM	13	4	9		13	4	9		0	0	0		0	0	0	
273	DISORDERS OF PLASMA PROTEIN METABOLISM	3	1	2		3	1	2		0	0	0		0	0	0	
274	GOUT	14	8	6		14	8	6		0	0	0		0	0	0	
275	DISORDERS OF MINERAL METABOLISM	256	79	177		249	75	174		5	3	2		2	1	1	
276	DISORDERS FLUID, ELECTROLYTE, ACID-BASE BALANCE	51	31	20		47	28	19		3	2	1		1	1	0	
277	OTHER & UNSPECIFIED DISORDERS OF METABOLISM	36	23	13		35	22	13		1	1	0		0	0	0	
278	OBESITY & HYPERALIMENTATION	29	16	13		19	9	10		10	7	3		0	0	0	
279	DISORDERS INVOLVING THE IMMUNE MECHANISM	236	104	132		225	99	126		9	4	5		2	1	1	
*280 289	IV. DISEASES OF THE BLOOD AND BLOOD-FORMING ORGANS	1	0	1		1	0	1		0	0	0		0	0	0	
280	IRON DEFICIENCY ANEMIAS	3	2	1		3	2	1		0	0	0		0	0	0	
281	OTHER DEFICIENCY ANEMIAS	2	1	1		1	0	1		1	1	0		0	0	0	
282	HEREDITARY HEMOLYTIC ANEMIAS	4	0	4		3	0	3		1	0	1		0	0	0	
283	ACQUIRED HEMOLYTIC ANEMIAS	30	14	16		29	13	16		1	1	0		0	0	0	
284	APLASTIC ANEMIA	50	17	33		47	16	31		2	1	1		1	0	1	
285	OTHER AND UNSPECIFIED ANEMIAS	35	21	14		32	20	12		3	1	2		0	0	0	
286	COAGULATION DEFECTS	19	6	13		18	6	12		1	0	1		0	0	0	
287	PURPURA & OTHER HEMORRHAGIC CONDITIONS	9	1	8		9	1	8		0	0	0		0	0	0	
288	DISEASES OF WHITE BLOOD CELLS	83	42	41		82	41	41		0	0	0		1	1	0	
289	OTHER DISEASES OF BLOOD & BLOOD-FORMING ORGANS																

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ICD. LIST NUMBER	CAUSE OF DEATH	TOTALS				WHITE				BLACK				OTHER			
		TOT	MALE	FEM		TOT	MALE	FEM		TOT	MALE	FEM		TOT	MALE	FEM	
*290-319	V. MENTAL DISORDERS	1272	417	855		1238	407	831		32	10	22		2	0	2	
290-294	ORGANIC PSYCHOTIC CONDITIONS	511	151	360		494	148	346		16	3	13		1	0	1	
290	SENILE & PRESENILE ORGANIC PSYCHOTIC CONDITIONS	500	141	359		484	139	345		15	2	13		1	0	1	
291	ALCOHOLIC PSYCHOSES	9	8	1		8	7	1		1	1	0		0	0	0	
294	OTHER ORGANIC PSYCHOTIC CONDITIONS (CHRONIC)	467	120	347		458	117	341		8	3	5		1	0	1	
295-299	OTHER PSYCHOSES	10	5	5		10	5	5		0	0	0		0	0	0	
295	SCHIZOPHRENIC DISORDERS	3	2	1		3	2	1		0	0	0		0	0	0	
296	AFFECTIVE PSYCHOSES	1	0	1		1	0	1		0	0	0		0	0	0	
297	PARANOID STATES	453	113	340		444	110	334		8	3	5		1	0	1	
298	OTHER NONORGANIC PSYCHOSES	276	132	144		268	128	140		8	4	4		0	0	0	
300-316	NEUROSES, PERSONALITY DISORDERS, AND OTHER NONPSYCHOTIC DISORDERS	3	1	2		3	1	2		0	0	0		0	0	0	
300	NEUROTIC DISORDERS	102	76	26		97	74	23		5	2	3		0	0	0	
303	ALCOHOL DEPENDENCE SYNDROME	7	4	3		6	3	3		1	1	0		0	0	0	
304	DRUG DEPENDENCE	31	21	10		29	20	9		2	1	1		0	0	0	
305	NONDEPENDENT ABUSE OF DRUGS	1	1	0		1	1	0		0	0	0		0	0	0	
306	PHYSIOLOGIC MALFUNCTION ARISING FROM MENTAL FACTORS	5	2	3		5	2	3		0	0	0		0	0	0	
307	SPECIAL SYMPTOMS OR SYNDROMES NEC	104	21	83		104	21	83		0	0	0		0	0	0	
310	SPEC NONPSYCH MENTAL DIS DUE TO ORGANIC BRAIN DAMAGE	23	6	17		23	6	17		0	0	0		0	0	0	
311	DEPRESSIVE DISORDER NEC	18	14	4		18	14	4		0	0	0		0	0	0	
317-319	MENTAL RETARDATION	2	2	0		2	2	0		0	0	0		0	0	0	
318	OTHER SPECIFIED MENTAL RETARDATION	16	12	4		16	12	4		0	0	0		0	0	0	
319	UNSPECIFIED MENTAL RETARDATION	1512	644	868		1467	618	849		37	21	16		8	5	3	
*320-326	VI. DISEASES OF THE NERVOUS SYSTEM AND SENSE ORGANS	28	13	15		26	13	13		2	0	2		0	0	0	
320-326	INFLAMMATORY DISEASES OF THE CENTRAL NERVOUS SYSTEM	4	3	1		4	3	1		0	0	0		0	0	0	
320	BACTERIAL MENINGITIS	10	3	7		8	3	5		2	0	2		0	0	0	
322	MENINGITIS OF UNSPECIFIED CAUSE	11	6	5		11	6	5		0	0	0		0	0	0	
323	ENCEPHALITIS, MYELITIS & ENCEPHALOMYELITIS	2	1	1		2	1	1		0	0	0		0	0	0	
324	INTRACRANIAL & INTRASPINAL ABSCESS	1	0	1		1	0	1		0	0	0		0	0	0	
326	LATE EFF INTRACRANIAL ABSCESS OR PYOGENIC INFECTION	1148	479	669		1124	465	659		19	11	8		5	3	2	
330-337	HEREDITARY AND DEGENERATIVE DISEASES OF NERVOUS SYSTEM	3	1	2		3	1	2		0	0	0		0	0	0	
330	CEREBRAL DEGENERATIONS USUALLY MANIFEST IN CHILDHOOD	656	221	435		647	216	431		8	4	4		1	1	0	
331	OTHER CEREBRAL DEGENERATIONS	332	185	147		322	179	143		7	5	2		3	1	2	
332	PARKINSON'S DISEASE	30	12	18		29	11	18		1	1	0		0	0	0	
333	OTH EXTRAPYRAMIDAL DISEASE & ABN MOVEMENT DISORDERS	7	2	5		7	2	5		0	0	0		0	0	0	
334	SPINOCEREBELLAR DISEASE	116	57	59		112	55	57		3	1	2		1	1	0	
335	ANTERIOR HORN CELL DISEASE	4	1	3		4	1	3		0	0	0		0	0	0	
336	OTHER DISEASES OF SPINAL CORO	258	118	140		240	106	134		15	10	5		3	2	1	
340-349	OTHER DISORDERS OF THE CENTRAL NERVOUS SYSTEM	71	25	46		69	24	45		2	1	1		0	0	0	
340	MULTIPLE SCLEROSIS	8	3	5		8	3	5		0	0	0		0	0	0	
342	HEMIPLEGIA	12	8	4		10	7	3		1	1	0		0	0	1	
343	INFANTILE CEREBRAL PALSY	12	5	7		12	5	7		0	0	0		0	0	0	
344	OTHER PARALYTIC SYNDROMES	26	18	8		25	17	8		1	1	0		0	0	0	
345	EPILEPSY	124	56	68		112	48	64		11	7	4		1	0	0	
348	OTHER CONDITIONS OF BRAIN																

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ICD. LIST NUMBER	CAUSE OF DEATH VI. DISEASES OF THE NERVOUS SYSTEM AND SENSE ORGANS (CONTINUED)	TOTALS			WHITE			BLACK			OTHER		
		TOT		FEM	TOT		FEM	TOT		FEM	TOT		FEM
		MALE	FEM		MALE	FEM		MALE	FEM		MALE	FEM	
349	OTHER & UNSPECIFIED DISORDERS OF NERVOUS SYSTEM	5	3	2	4	2	2	0	0	0	1	1	0
350-359	DISORDERS OF PERIPHERAL NERVOUS SYSTEM	76	33	43	75	33	42	1	0	1	0	0	0
355	MONONEURITIS LOWER LIMB	4	3	1	4	3	1	0	0	0	0	0	0
356	HEREDITARY & IDIOPATHIC PERIPHERAL NEUROPATHY	17	4	13	16	4	12	1	0	1	0	0	0
357	INFLAMMATORY & TOXIC NEUROPATHY	4	1	3	4	1	3	0	0	0	0	0	0
358	MYONEURAL DISORDERS	19	9	10	19	9	10	0	0	0	0	0	0
359	MUSCULAR DYSTROPHIES & OTHER MYOPATHIES	32	16	16	32	16	16	0	0	0	0	0	0
360-379	DISORDERS OF EYE AND ADNEXA	2	1	1	2	1	1	0	0	0	0	0	0
369	BLINDNESS AND LOW VISION	2	1	1	2	1	1	0	0	0	0	0	0
*390	VII. DISEASES OF THE CIRCULATORY SYSTEM	21588	9595	11993	20852	9245	11607	604	286	318	131	63	68
390-392	ACUTE RHEUMATIC FEVER	7	4	3	6	3	3	0	0	0	1	1	0
391	RHEUMATIC FEVER WITH HEART INVOLVEMENT	7	4	3	6	3	3	0	0	0	1	1	0
393-398	CHRONIC RHEUMATIC HEART DISEASE	117	24	93	111	23	88	3	0	3	3	1	2
394	DISEASES OF MITRAL VALVE	53	7	46	51	7	44	0	0	0	2	0	2
395	DISEASES OF AORTIC VALVE	3	1	2	3	1	2	0	0	0	0	0	0
396	DISEASES OF MITRAL AND AORTIC VALVES	18	5	13	17	5	12	1	0	1	0	0	0
397	DISEASES OF OTHER ENDOCARDIAL STRUCTURES	12	3	9	11	3	8	1	0	1	0	0	0
398	OTHER RHEUMATIC HEART DISEASE	31	8	23	29	7	22	1	0	1	1	1	0
401-405	HYPERTENSIVE DISEASE	582	229	353	540	213	327	40	16	24	2	2	2
401	ESSENTIAL HYPERTENSION	180	67	113	161	60	101	17	7	10	2	0	2
402	HYPERTENSIVE HEART DISEASE	294	117	177	279	111	168	15	6	9	0	0	0
403	HYPERTENSIVE RENAL DISEASE	86	37	49	79	34	45	7	3	4	0	0	0
404	HYPERTENSIVE HEART & RENAL DISEASE	22	8	14	21	8	13	1	0	1	0	0	0
410-414	ISCHEMIC HEART DISEASE	10604	5217	5387	10301	5066	5235	255	128	127	48	23	25
411	ACUTE MYOCARDIAL INFARCTION	4623	2320	2303	4479	2249	2230	121	57	64	23	14	9
412	OTH ACUTE & SUBACUTE FORMS OF ISCHEMIC HEART DIS	8	6	2	8	6	2	0	0	0	0	0	0
413	OLD MYOCARDIAL INFARCTION	10	3	7	10	3	7	0	0	0	0	0	0
414	ANGINA PECTORIS	19	8	11	19	8	11	0	0	0	0	0	0
415-417	OTHER FORMS OF CHRONIC ISCHEMIC HEART DISEASE	5944	2880	3064	5785	2800	2985	134	71	63	25	9	16
415	DISEASES OF PULMONARY CIRCULATION	247	103	144	236	100	136	9	2	7	1	0	1
416	ACUTE PULMONARY HEART DISEASE	167	75	92	160	73	87	6	2	4	1	0	1
417	CHRONIC PULMONARY HEART DISEASE	78	26	52	74	25	49	3	0	3	0	0	0
420-429	OTHER DISEASES OF PULMONARY CIRCULATION	2	2	0	2	2	0	0	0	0	0	0	0
420	OTHER FORMS OF HEART DISEASE	5503	2340	3163	5307	2234	3073	166	87	79	30	19	11
421	ACUTE PERICARDITIS	3	2	1	2	1	1	1	1	0	0	0	0
422	ACUTE & SUBACUTE ENDOCARDITIS	17	10	7	16	9	7	1	1	0	0	0	0
423	ACUTE MYOCARDITIS	5	2	3	4	1	3	1	1	0	0	0	0
424	OTHER DISEASES OF PERICARDIUM	16	9	7	16	9	7	0	0	0	0	0	0
425	OTHER DISEASES OF ENDOCARDIUM	508	186	322	497	180	317	10	5	5	1	1	0
426	CARDIOMYOPATHY	526	316	210	502	301	201	21	14	7	3	1	2
427	CONDUCTION DISORDERS	36	12	24	33	10	23	2	2	0	1	0	1
428	CARDIAC DYSRHYTHMIAS	1576	663	913	1519	633	886	46	21	25	11	9	2
429	HEART FAILURE	1688	564	1124	1639	546	1093	44	15	29	5	3	2
430	ILL-DEFINED DESCRIPTIONS & COMPLICATIONS HEART DIS	1128	576	552	1079	544	535	40	27	13	9	5	4
431-438	CEREBROVASCULAR DISEASE	3346	1167	2179	3209	1115	2094	94	35	59	43	17	26

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ICD. LIST NUMBER	CAUSE OF DEATH VII. DISEASES OF THE CIRCULATORY SYSTEM (CONTINUED)	T O T A L S		W H I T E		B L A C K		O T H E R		
		TOT	MALE	FEM	TOT	MALE	FEM	TOT	MALE	FEM
430	SUBARACHNOID HEMORRHAGE	119	43	76	114	39	75	4	3	1
431	INTRACEREBRAL HEMORRHAGE	421	178	243	394	167	227	15	6	9
432	OTH & UNSPECIFIED INTRACRANIAL HEMORRHAGE	102	43	59	92	40	52	7	2	5
433	OCCULSION & STENOSIS OF PRECEREBRAL ARTERIES	22	12	10	21	12	9	1	0	1
434	OCCULSION OF CEREBRAL ARTERIES	306	101	205	297	98	199	5	1	4
435	TRANSIENT CEREBRAL ISCHEMIA	4	1	3	4	1	3	0	0	0
436	ACUTE BUT ILL-DEFINED CEREBROVASCULAR DISEASE	1752	582	1170	1688	557	1131	45	17	28
437	OTH & ILL-DEFINED CEREBROVASCULAR DISEASE	243	63	180	233	61	172	8	2	6
438	LATE EFFECTS OF CEREBROVASCULAR DISEASE	377	144	233	366	140	226	9	4	5
440-448	DISEASES OF ARTERIES, ARTERIOLES, AND CAPILLARIES	1084	469	615	1050	454	596	33	14	19
440	ATHEROSCLEROSIS	369	125	244	366	124	242	3	1	2
441	AORTIC ANEURYSM	428	240	188	410	230	180	17	9	8
442	OTHER ANEURYSM	11	7	4	10	6	4	1	1	0
443	OTHER PERIPHERAL VASCULAR DISEASE	202	76	126	192	73	119	10	3	7
444	ARTERIAL EMBOLISM & THROMBOSIS	22	4	18	21	4	17	1	0	1
446	POLYARTERITIS NODOSA & ALLIED CONDITIONS	23	9	14	22	9	13	1	0	1
447	OTHER DISORDERS OF ARTERIES & ARTERIOLES	28	8	20	28	8	20	0	0	0
448	DISEASE OF CAPILLARIES	1	0	1	1	0	1	0	0	0
451-459	DISEASES OF VEINS AND LYMPHATICS, AND OTHER DIS. OF CIRCULATORY SYS.	98	42	56	92	37	55	4	4	0
451	PHLEBITIS & THROMBOPHLEBITIS	12	5	7	12	5	7	0	0	0
452	PORTAL VEIN THROMBOSIS	1	1	0	1	1	0	0	0	0
453	OTHER VENOUS EMBOLISM & THROMBOSIS	11	2	9	11	2	9	0	0	0
454	VARICOSE VEINS OF LOWER EXTREMITIES	3	0	3	3	0	3	0	0	0
456	VARICOSE VEINS OF OTHER SITES	6	6	0	5	5	0	1	1	0
458	HYPOTENSION	30	14	16	28	13	15	1	1	1
459	OTHER DISORDERS OF CIRCULATORY SYSTEM	35	14	21	32	11	21	2	2	0
460-519	VIII. DISEASES OF THE RESPIRATORY SYSTEM	6130	2748	3382	5954	2652	3302	147	83	64
460-466	ACUTE RESPIRATORY INFECTIONS	12	8	4	12	8	4	0	0	0
463	ACUTE TONSILLITIS	1	1	0	1	1	0	0	0	0
465	ACUTE UPPER RESP INF MULTIPLE OR UNSPECF SITES	5	5	0	5	5	0	0	0	0
466	ACUTE BRONCHITIS AND BRONCHIOLITIS	6	2	4	6	2	4	0	0	0
470-478	OTHER DISEASES UPPER RESPIRATORY TRACT	4	3	1	3	3	0	1	0	1
473	CHRONIC SINUSITIS	1	1	0	1	1	0	0	0	0
478	OTHER DISEASES OF UPPER RESPIRATORY TRACT	3	2	1	2	2	0	1	0	1
480-487	PNEUMONIA AND INFLUENZA	2792	1159	1633	2724	1129	1595	60	27	33
480	VIRAL PNEUMONIA	3	0	3	3	0	3	0	0	0
481	PNEUMOCOCCAL PNEUMONIA	57	22	35	54	21	33	3	1	2
482	OTHER BACTERIAL PNEUMONIA	72	41	31	69	40	29	3	1	2
483	PNEUMONIA DUE TO OTH SPECIFIED ORGANISM	3	2	1	3	2	1	0	0	0
485	BRONCHOPNEUMONIA ORGANISM UNSPECIFIED	87	37	50	85	35	50	2	2	0
486	PNEUMONIA ORGANISM UNSPECIFIED	252	1056	1506	2502	1030	1472	52	23	29
487	INFLUENZA	8	1	7	8	1	7	0	0	0
490-496	CHRONIC OBSTRUCTIVE PULMONARY DISEASE AND ALLIED CONDITIONS	2434	1135	1299	2364	1094	1270	55	33	22

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ICD. LIST NUMBER	CAUSE OF DEATH VIII. DISEASES OF THE RESPIRATORY SYSTEM (CONTINUED)	TOTALS				WHITE				BLACK				OTHER			
		TOT	MALE	FEM	TOT	MALE	FEM	TOT	MALE	FEM	TOT	MALE	FEM	TOT	MALE	FEM	TOT
490	BRONCHITIS NOT SPECIF AS ACUTE OR CHRONIC	23	9	14	22	8	14	1	1	0	0	0	0	0	0	0	0
491	CHRONIC BRONCHITIS	42	19	23	42	19	23	0	0	0	0	0	0	0	0	0	0
492	EMPHYSEMA	345	169	176	336	166	170	8	3	5	1	0	1	1	0	1	1
493	ASTHMA	118	41	77	102	31	71	8	6	2	8	4	4	4	4	4	4
494	BRONCHIECTASIS	27	4	23	23	2	21	3	1	2	1	1	0	1	1	0	0
496	CHRONIC AIRWAY OBSTRUCTION NEC	1879	893	986	1839	868	971	35	22	13	5	3	2	3	2	2	2
500-508	PNEUMOCONIOSES AND OTHER LUNG DISEASES DUE TO EXTERNAL AGENTS	384	177	207	368	164	204	12	12	0	4	1	3	1	3	3	3
501	ASBESTOSIS	14	13	1	14	13	1	0	0	0	0	0	0	0	0	0	0
502	PNEUMOCONIOSIS DUE TO OTH SILICA-SILICATES	2	2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
503	PNEUMOCONIOSIS DUE TO OTH INORGANIC DUST	2	0	2	2	0	2	0	0	0	0	0	0	0	0	0	0
507	PNEUMONITIS DUE TO SOLIDS & LIQUIDS	365	162	203	349	149	200	12	12	0	4	1	3	1	3	1	3
508	RESP CONDITIONS DUE TO OTH & UNSPECF EXT AGENTS	1	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0
510-519	OTHER DISEASES OF RESPIRATORY SYSTEM	504	266	238	483	254	229	19	11	8	2	1	1	1	1	1	1
510	EMPYEMA	9	7	2	8	6	2	1	1	0	0	0	0	0	0	0	0
511	PLEURISY	26	11	15	21	7	14	5	4	1	0	0	0	0	0	0	0
512	PNEUMOTHORAX	6	3	3	6	3	3	0	0	0	0	0	0	0	0	0	0
513	ABSCESS OF LUNG & MEDIASTINUM	5	4	1	5	4	1	0	0	0	0	0	0	0	0	0	0
514	PULMONARY CONGESTION AND HYPOSTASIS	21	7	14	20	7	13	1	0	1	0	0	0	0	0	0	0
515	POSTINFLAMMATORY PULMONARY FIBROSIS	177	103	74	172	100	72	4	2	2	1	1	0	1	1	0	0
516	OTH ALVEOLAR & PARIETOALVEOLAR PNEUMONOPATHY	19	13	6	19	13	6	0	0	0	0	0	0	0	0	0	0
518	OTHER DISEASES OF LUNG	210	108	102	201	104	97	8	4	4	1	0	1	0	1	0	1
519	OTHER DISEASES OF RESPIRATORY SYSTEM	31	10	21	31	10	21	0	0	0	0	0	0	0	0	0	0
*520-529	IX. DISEASES OF THE DIGESTIVE SYSTEM DISEASES OF ORAL CAVITY, SALIVARY GLANDS AND JAWS	1990	991	999	1898	951	947	80	35	45	12	5	7	0	0	0	0
527	DISEASES OF THE SALIVARY GLANDS	1	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0
528	OTH ORAL SOFT TISSUES EXCL LESIONS GINGIVA & TONGUE	1	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
530-537	DISEASES OF ESOPHAGUS, STOMACH, AND DUODENUM	160	72	88	152	67	85	6	4	2	2	1	1	1	1	1	1
530	DISEASES OF ESOPHAGUS	44	16	28	44	16	28	0	0	0	0	0	0	0	0	0	0
531	GASTRIC ULCER	34	14	20	32	12	20	1	1	0	1	1	0	1	1	0	0
532	DUODENAL ULCER	32	18	14	30	17	13	1	1	0	1	0	1	0	1	0	1
533	PEPTIC ULCER SITE UNSPECF	32	14	18	31	14	17	1	0	1	0	0	1	0	0	0	0
534	GASTROJEJUNAL ULCER	2	2	0	2	2	0	0	0	0	0	0	0	0	0	0	0
535	GASTRITIS & DUODENITIS	7	5	2	6	4	2	1	1	0	0	0	0	0	0	0	0
536	DISORDERS OF FUNCTION OF STOMACH	3	0	3	3	0	3	0	0	0	0	0	0	0	0	0	0
537	OTHER DISORDERS OF STOMACH & DUODENUM	6	3	3	4	2	2	2	1	1	0	0	1	0	0	0	0
540-543	APPENDICITIS	8	4	4	7	4	3	0	0	0	0	0	0	1	0	1	1
540	ACUTE APPENDICITIS	7	4	3	6	4	2	0	0	0	0	0	0	0	0	0	0
541	APPENDICITIS, UNQUALIFIED	1	0	1	1	0	1	0	0	0	0	0	0	1	0	1	1
550-553	HERNIA OF ABDOMINAL CAVITY	33	12	21	30	10	20	3	2	1	0	0	0	0	0	0	0
550	INGUINAL HERNIA	4	4	0	2	2	0	2	2	0	0	0	0	0	0	0	0
551	OTH HERNIA OF ABDOMINAL CAVITY WITH GANGRENE	5	1	4	5	1	4	0	0	0	0	0	0	0	0	0	0
552	OTH HERNIA ABD CAVITY W/O OBSTRUCT BUT W/O GANGRENE	11	3	8	11	3	8	0	0	0	0	0	0	0	0	0	0
553	OTH HERNIA ABD CAVITY W/O OBSTRUCT OR GANGRENE	13	4	9	12	4	8	1	0	1	0	0	1	0	0	0	0

TABLE C-15 (CONTINUED)

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ICD. LIST NUMBER	CAUSE OF DEATH IX. DISEASES OF THE DIGESTIVE SYSTEM (CONTINUED)	***** T O T A L S *****				***** W H I T E *****				***** B L A C K *****				***** O T H E R *****			
		TOT		FEM		TOT		FEM		TOT		FEM		TOT		FEM	
		MALE	FEM	MALE	FEM	MALE	FEM	MALE	FEM	MALE	FEM	MALE	FEM	MALE	FEM	MALE	FEM
555-558	NONINFECTIVE ENTERITIS AND COLITIS	297	97	200	288	94	194	7	2	5	1	1	2	1	1	1	1
555	REGIONAL ENTERITIS	15	5	10	15	5	10	0	0	0	0	0	0	0	0	0	0
556	IDIOPATHIC PROCTOCOLITIS	17	7	10	17	7	10	0	0	0	0	0	0	0	0	0	0
557	VASCULAR INSUFFICIENCY OF INTESTINE	226	68	158	217	65	152	7	2	5	2	1	2	1	1	1	1
558	OTH NONINFECTIOUS GASTROENTERITIS & COLITIS	39	17	22	39	17	22	0	0	0	0	0	0	0	0	0	0
560-569	OTHER DISEASES OF INTESTINE AND PERITONEUM	299	99	200	289	96	193	10	3	7	0	0	0	0	0	0	0
560	INTESTINAL OBSTRUCTION W/O MENTION OF HERNIA	124	44	80	118	43	75	6	1	5	0	0	0	0	0	0	0
562	DIVERTICULA OF INTESTINE	75	19	56	73	18	55	2	1	1	0	0	0	0	0	0	0
564	FUNCTIONAL DIGESTIVE DISORDERS NEC	2	0	2	2	0	2	0	0	0	0	0	0	0	0	0	0
566	ABSCESS OF ANAL AND RECTAL REGIONS	4	1	3	4	1	3	0	0	0	0	0	0	0	0	0	0
567	PERITONITIS	46	18	28	44	17	27	2	1	1	0	0	0	0	0	0	0
568	OTHER DISORDERS OF PERITONEUM	4	1	3	4	1	3	0	0	0	0	0	0	0	0	0	0
569	OTHER DISORDERS OF INTESTINE	44	16	28	44	16	28	0	0	0	0	0	0	0	0	0	0
570-579	OTHER DISEASES OF DIGESTIVE SYSTEM	1191	706	485	1130	679	451	54	24	30	7	3	10	2	2	4	4
570	ACUTE & SUBACUTE NECROSIS OF LIVER	10	3	7	10	3	7	0	0	0	0	0	0	0	0	0	0
571	CHRONIC LIVER DISEASE & CIRRHOSIS	570	383	187	545	371	174	23	10	13	2	2	2	2	0	0	0
572	LIVER ABSCESS & SEQUELAE OF CHRONIC LIVER DISEASE	145	93	52	131	88	43	12	5	7	2	0	2	0	2	0	2
573	OTHER DISORDERS OF LIVER	48	30	18	44	29	15	3	1	2	1	0	1	0	1	0	1
574	CHOLELITHIASIS	23	15	8	22	14	8	1	1	0	0	0	0	0	0	0	0
575	OTHER DISORDERS OF GALLBLADDER	37	19	18	37	19	18	0	0	0	0	0	0	0	0	0	0
576	OTHER DISORDERS OF BILIARY TRACT	34	12	22	33	12	21	1	0	1	0	0	0	0	0	0	0
577	DISEASES OF PANCREAS	77	39	38	73	38	35	4	1	3	0	0	0	0	0	0	0
578	GASTROINTESTINAL HEMORRHAGE	245	112	133	233	105	128	10	6	4	2	1	2	1	1	1	1
579	INTESTINAL MALABSORPTION	2	0	2	2	0	2	0	0	0	0	0	0	0	0	0	0
580-589	DISEASES OF THE GENITOURINARY SYSTEM	1323	570	753	1243	531	712	66	32	34	7	7	14	7	7	7	7
580	NEPHRITIS AND NEPHROSIS	870	406	464	822	380	442	36	19	17	5	5	12	7	5	5	5
581	ACUTE GLOMERULONEPHRITIS	1	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0
582	NEPHROTIC SYNDROME	8	1	7	7	1	6	1	0	1	0	0	0	0	0	0	0
583	CHRONIC GLOMERULONEPHRITIS	32	17	15	29	14	15	3	3	0	0	0	0	0	0	0	0
584	NEPHRITIS & NEPHROPATHY NOT SPECIF AS ACUTE/CHRONIC	7	2	5	7	2	5	0	0	0	0	0	0	0	0	0	0
585	ACUTE RENAL FAILURE	114	55	59	107	52	55	5	1	4	2	2	2	2	0	0	0
586	CHRONIC RENAL FAILURE	199	100	99	189	96	93	5	2	3	5	2	5	2	3	2	3
587	RENAL FAILURE, UNSPECIFIED	506	230	276	479	214	265	22	13	9	5	3	5	3	2	2	2
588	RENAL SCLEROSIS, UNSPECIFIED	1	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0
589	DISORDERS RESULTING FROM IMPAIRED RENAL FUNCTION	2	1	1	2	1	1	0	0	0	0	0	0	0	0	0	0
590-599	OTHER DISEASES OF URINARY SYSTEM	435	151	284	403	138	265	30	13	17	2	2	2	0	0	0	0
590	INFECTIONS OF KIDNEY	7	0	7	7	0	7	0	0	0	0	0	0	0	0	0	0
591	HYDRONEPHROSIS	3	0	3	3	0	3	0	0	0	0	0	0	0	0	0	0
592	CALCULUS OF KIDNEY & URETER	5	3	2	5	3	2	0	0	0	0	0	0	0	0	0	0
593	OTHER DISORDERS OF KIDNEY & URETER	98	42	56	77	34	43	19	8	11	2	0	2	0	2	0	2
594	CALCULUS OF LOWER URINARY TRACT	1	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0
595	CYSTITIS	4	3	1	4	3	1	0	0	0	0	0	0	0	0	0	0
596	OTHER DISORDERS OF BLADDER	5	1	4	5	1	4	0	0	0	0	0	0	0	0	0	0
598	URETHRAL STRICTURE	2	2	0	2	2	0	2	0	0	0	0	0	0	0	0	0
599	OTHER DISORDERS OF URETHRA & URINARY TRACT	310	100	210	299	95	204	11	5	6	0	0	0	0	0	0	0

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ICD. LIST NUMBER	CAUSE OF DEATH X. DISEASES OF THE GENITOURINARY SYSTEM (CONTINUED)	TOTALS			WHITE			BLACK			OTHER		
		TOT	MALE	FEM	TOT	MALE	FEM	TOT	MALE	FEM	TOT	MALE	FEM
		13	13	0	13	13	0	0	0	0	0	0	0
600-608	DISEASES OF MALE GENITAL ORGANS	13	8	0	13	8	0	0	0	0	0	0	0
600	HYPERPLASIA OF PROSTATE	1	1	0	1	1	0	0	0	0	0	0	0
601	INFLAMMATORY DISEASES OF PROSTATE	2	2	0	2	2	0	0	0	0	0	0	0
602	OTHER DISORDERS OF PROSTATE	1	1	0	1	1	0	0	0	0	0	0	0
607	DISORDERS OF PENIS	1	1	0	1	1	0	0	0	0	0	0	0
608	OTHER DISORDERS OF MALE GENITAL ORGANS	2	2	0	2	2	0	0	0	0	0	0	0
614-616	INFLAMMATORY DISEASE OF FEMALE PELVIC ORGANS	2	0	2	2	0	2	0	0	0	0	0	0
614	INFLAM DIS OVARY, FALLP TUBE, PELV TISS, PERITONEUM	2	0	2	2	0	2	0	0	0	0	0	0
617-629	OTHER DISORDERS OF FEMALE GENITAL TRACT	3	0	3	3	0	3	0	0	0	0	0	0
617	ENDOMETRIOSIS	1	0	1	1	0	1	0	0	0	0	0	0
619	FISTULA INVOLVING FEMALE GENITAL TRACT	1	0	1	1	0	1	0	0	0	0	0	0
626	DIS MENSTRUATION & OTH ABN BLEED FEMALE GEN TRACT	1	0	1	1	0	1	0	0	0	0	0	0
*630 676	XI. COMPLICATIONS OF PREGNANCY, CHILDBIRTH, AND PUERPERIUM	7	0	7	6	0	6	1	0	1	0	0	0
630-639	PREGNANCY WITH ABORTIVE OUTCOME	1	0	1	1	0	1	0	0	0	0	0	0
637	UNSPECIFIED ABORTION	1	0	1	1	0	1	0	0	0	0	0	0
640-648	COMPLICATIONS MAINLY RELATED TO PREGNANCY	2	0	2	1	0	1	1	0	1	0	0	0
642	HYPERTENSION COMP PREG, CHILDBIRTH, & PUERPERIUM	2	0	2	1	0	1	1	0	1	0	0	0
650-659	NORMAL DELIVERY & OTHER INDICATIONS FOR CARE	1	0	1	1	0	1	0	0	0	0	0	0
656	OTH FETAL & PLACENTAL PROBS AFFECTING MGT MOTHER	1	0	1	1	0	1	0	0	0	0	0	0
660-669	COMPLICATIONS MAINLY DURING LABOUR AND DELIVERY	1	0	1	1	0	1	0	0	0	0	0	0
666	POSTPARTUM HEMORRHAGE	1	0	1	1	0	1	0	0	0	0	0	0
670-676	COMPLICATIONS OF THE PUERPERIUM	2	0	2	2	0	2	0	0	0	0	0	0
671	VENOUS COMPLICATIONS IN PREG & PUERPERIUM	1	0	1	1	0	1	0	0	0	0	0	0
674	OTH & UNSPEC COMP OF PUERPERIUM NEC	1	0	1	1	0	1	0	0	0	0	0	0
*680 709	XII. DISEASES OF THE SKIN AND SUBCUTANEOUS TISSUE	59	22	37	54	21	33	2	1	1	3	0	3
680-686	INFECTIONS OF SKIN AND SUBCUTANEOUS TISSUE	22	10	12	20	10	10	0	0	0	2	0	2
682	OTHER CELLULITIS & ABSCESS	16	4	12	14	4	10	0	0	0	2	0	2
686	OTH LOCAL INFECTIONS SKIN & SUBCUTANEOUS TISSUE	6	6	0	6	6	0	0	0	0	0	0	0
690-698	OTHER INFLAMMATORY CONDITIONS OF SKIN AND SUBCUTANEOUS TISSUE	7	3	4	6	3	3	0	0	0	1	0	1
694	BULLOUS DERMATOSES	3	1	2	2	1	1	0	0	0	1	0	1
695	ERYTHEMATOUS CONDITIONS	3	1	2	3	1	2	0	0	0	0	0	0
696	PSORIASIS & SIMILAR DISORDERS	1	1	0	1	1	0	0	0	0	0	0	0
700-709	OTHER DISEASES OF SKIN AND SUBCUTANEOUS TISSUE	30	9	21	28	8	20	2	1	1	0	0	0
707	CHRONIC ULCER OF SKIN	30	9	21	28	8	20	2	1	1	0	0	0

TABLE C-15 (CONTINUED)

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ICD, LIST NUMBER	CAUSE OF DEATH	TOTALS				WHITE				BLACK				OTHER			
		TOT 192	MALE 50	FEM 142		TOT 180	MALE 44	FEM 136		TOT 11	MALE 5	FEM 6		TOT 1	MALE 1	FEM 0	
*710 739	XIII. DISEASES OF THE MUSCULOSKELETAL SYSTEM AND CONNECTIVE TISSUE	121	21	100		114	19	95		7	2	5		0	0	0	
710-719	ARTHRITIS AND RELATED DISORDERS	52	8	44		48	7	41		4	1	3		0	0	0	
710	DIFFUSE DISEASES OF CONNECTIVE TISSUE	3	1	2		3	1	2		0	0	0		0	0	0	
711	ARTHRITIS ASSOC WITH INFECTIONS	45	7	38		45	7	38		0	0	0		0	0	0	
714	RHEUMATOID ARTHRITIS & OTH INFLM POLYARTHRITIS	18	3	15		16	2	14		2	1	1		0	0	0	
715	OSTEOARTHRITIS & ALLIED DISORDERS	2	1	1		1	1	0		1	0	1		0	0	0	
716	OTHER & UNSPECIFIED ARTHROPATHIES	1	1	0		1	1	0		0	0	0		0	0	0	
719	OTHER & UNSPECIFIED DISORDERS OF JOINT	2	2	0		2	2	0		0	0	0		0	0	0	
720-724	DORSOPATHIES	2	2	0		2	2	0		0	0	0		0	0	0	
720	ANKYLOSING SPONDYLITIS & OTH INFLM SPONDYLOPATHIES	2	2	0		2	2	0		0	0	0		0	0	0	
725-729	RHEUMATISM, EXCLUDING THE BACK	22	9	13		21	8	13		1	1	0		0	0	0	
728	DISORDERS OF MUSCLE, LIGAMENT & FASCIA	9	5	4		9	5	4		0	0	0		0	0	0	
729	OTHER DISORDERS OF SOFT TISSUES	13	4	9		12	3	9		1	1	0		0	0	0	
730-739	OSTEOPATHIES CHONDROPATHIES & ACQUIRED MUSCULOSKELETAL DEFORMITIES	47	18	29		43	15	28		3	2	1		1	1	0	
730	OSTEOMYELITIS, PERIOSTITIS & OTH INFECTIONS OF BONE	17	11	6		14	8	6		2	2	0		1	1	0	
731	OSTEITIS DEFORMANS & OSTEOPATHIES ASSOC W OTH DIS CE	1	1	0		1	1	0		0	0	0		0	0	0	
733	OTHER DISORDERS OF BONE & CARTILAGE	20	5	15		20	5	15		0	0	0		0	0	0	
737	CURVATURE OF SPINE	9	1	8		8	1	7		1	0	1		0	0	0	
*740 759	XIV. CONGENITAL ANOMALIES	196	105	91		175	95	80		15	6	9		6	4	2	
740	ANENCEPHALUS & SIMILAR ANOMALIES	4	1	3		4	1	3		0	0	0		0	0	0	
741	SPINA BIFIDA	1	1	0		1	1	0		0	0	0		0	0	0	
742	OTHER CONGENITAL ANOMALIES OF NERVOUS SYSTEM	44	26	18		43	25	18		1	1	0		0	0	0	
745	BULBUS CORDIS ANOMS & ANOMS CARDIAC SEPTAL CLOSURE	21	8	13		21	8	13		0	0	0		0	0	0	
746	OTHER CONGENITAL ANOMALIES OF HEART	43	25	18		37	22	15		5	3	2		1	0	1	
747	OTHER CONGENITAL ANOMS OF CIRCULATORY SYSTEM	19	11	8		16	10	6		2	0	2		1	1	0	
748	CONGENITAL ANOMALIES OF RESPIRATORY SYSTEM	12	6	6		9	4	5		2	1	1		1	1	0	
751	OTHER CONGENITAL ANOMS OF DIGESTIVE SYSTEM	3	1	2		3	1	2		0	0	0		0	0	0	
753	CONGENITAL ANOMS OF URINARY SYSTEM	4	2	2		4	2	2		0	0	0		0	0	0	
755	OTHER CONGENITAL ANOMS OF LIMBS	1	0	1		1	0	1		0	0	0		0	0	0	
756	OTHER CONGENITAL MUSCULOSKELETAL ANOMALIES	11	7	4		8	6	2		2	0	2		1	1	0	
757	CONGENITAL ANOMS OF THE INTEGUMENT	3	3	0		2	2	0		1	1	0		0	0	0	
758	CHROMOSOMAL ANOMALIES	14	7	7		11	7	4		2	0	2		1	0	1	
759	OTHER & UNSPECIFIED CONGENITAL ANOMALIES	16	7	9		15	6	9		0	0	0		1	1	0	
*760 779	XV. CERTAIN CONDITIONS ORIGINATING IN PERINATAL PERIOD	220	122	98		187	99	88		30	22	8		3	1	2	
760	NEWBORN AFFECTED BY MAT CONDS REL/UNREL TO PREG	1	1	0		0	0	0		1	1	0		0	0	0	
761	NEWBORN AFFECTED BY MAT COMPLICATIONS OF PREG	19	10	9		17	8	9		2	2	0		0	0	0	
762	NEWBORN AFFECTED COMPLIC PLACENTA, CORD, MEMBRANE	15	7	8		13	5	8		2	2	0		0	0	0	
764	SLOW FETAL GROWTH & FETAL MALNUTRITION	1	0	1		1	0	1		0	0	0		0	0	0	
765	DISORDERS REL TO SHORT GESTATION & UNSPECIF LOW BIRTHWT	61	38	23		49	30	19		11	8	3		1	0	1	
767	BIRTH TRAUMA	4	3	1		3	2	1		1	1	0		0	0	0	
768	INTRAUTERINE HYPOXIA & BIRTH ASPHYXIA	9	6	3		7	4	3		2	2	0		0	0	0	
769	RESPIRATORY DISTRESS SYNDROME	26	18	8		22	14	8		3	3	0		1	1	0	
770	OTHER RESPIRATORY CONDITIONS OF NEWBORN	27	15	12		25	13	12		2	2	0		0	0	0	
771	INFECTIONS SPECIFIC TO THE PERINATAL PERIOD	9	4	5		8	4	4		1	1	0		0	0	0	
772	NEONATAL HEMORRHAGE	5	2	3		4	2	2		0	0	0		1	0	1	

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ICD. LIST NUMBER	CAUSE OF DEATH XV. CERTAIN CONDITIONS ORIGINATING IN PERINATAL PERIOD (CONTINUED)	T O T A L S				W H I T E				B L A C K				O T H E R			
		TOT	MALE	FEM	FEM	TOT	MALE	FEM	FEM	TOT	MALE	FEM	FEM	TOT	MALE	FEM	FEM
		2	1	1		1	1	0		1	0	1		0	0	0	
773	HEMOLYTIC DIS OF NEWBORN DUE TO ISOIMMUNIZATION	1	0	1		1	0	1		0	0	0		0	0	0	
776	HEMATOLOGICAL DISORDERS OF NEWBORN	12	6	6		9	5	4		3	1	2		0	0	0	
777	PERINATAL DISORDERS OF DIGESTIVE SYSTEM	6	2	4		6	2	4		0	0	0		0	0	0	
778	COND INVOLV INTEGUMENT/TEMP REGULATION OF NEWBORN	22	9	13		21	9	12		1	0	1		0	0	0	
779	OTH & ILL-DEFINED COND ORIGINATING IN PERINATAL PERIOD	476	211	265		441	188	253		30	19	11		4	4	0	
*780	XVI. SYMPTOMS SIGNS, AND ILL-DEFINED CONDICTIONS	107	47	60		101	43	58		4	2	2		2	2	0	
780-789	SYMPTOMS	27	15	12		24	14	10		3	1	2		0	0	0	
780	GENERAL SYMPTOMS	1	1	0		1	1	0		0	0	0		0	0	0	
781	SYMPTOMS INVOLVING NERVOUS & MUSCULOSKELETAL SYS	1	0	1		1	0	1		0	0	0		0	0	0	
782	SYMPTOMS INVOLVING SKIN & OTH INTEGUMENTARY TISSUE	15	2	13		15	2	13		0	0	0		0	0	0	
783	SYMPTOMS RE NUTRITION, METABOLISM & DEVELOPMENT	58	27	31		55	24	31		1	1	0		2	2	0	
785	SYMPTOMS INVOLVING CARDIOVASCULAR SYSTEM	2	1	1		2	1	1		0	0	0		0	0	0	
786	SYMPTOMS INVOLVING RESP SYS & OTHER CHEST SYMPTOMS	1	1	0		1	1	0		0	0	0		0	0	0	
787	SYMPTOMS INVOLVING DIGESTIVE SYSTEM	2	0	2		2	0	2		0	0	0		0	0	0	
789	OTHER SYMPTOMS INVOLVING ABDOMEN & PELVIS	1	1	0		1	1	0		1	1	0		0	0	0	
790-796	NONSPECIFIC ABNORMAL FINDINGS	1	1	0		0	0	0		1	1	0		0	0	0	
790	NONSPECIFIC FINDINGS ON EXAMINATION OF BLOOD	1	1	0		0	0	0		1	1	0		0	0	0	
797-799	ILL-DEFINED AND UNKNOWN CAUSES OF MORBIDITY AND MORTALITY	368	163	205		340	145	195		25	16	9		2	2	0	
797	SENILITY W/O MENTION OF PSYCHOSIS	17	1	16		16	1	15		1	0	1		0	0	0	
798	SUDDEN DEATH, CAUSE UNKNOWN	48	22	26		35	13	22		13	9	4		0	0	0	
799	OTH ILL-DEFINED & UNK CAUSES OF MORBIDITY/MORTALITY	303	140	163		289	131	158		11	7	4		2	2	0	
*800	XVII. EXTERNAL CAUSES OF INJURY AND POISONING	2266	1530	736		2073	1381	692		146	117	29		42	29	13	
800-807	RAILWAY ACCIDENTS	8	8	0		8	8	0		0	0	0		0	0	0	
804	FALL IN, ON OR FROM RAILWAY TRAIN	1	1	0		1	1	0		0	0	0		0	0	0	
805	HIT BY ROLLING STOCK	7	7	0		7	7	0		0	0	0		0	0	0	
810-819	MOTOR VEHICLE TRAFFIC ACCIDENTS	441	293	148		408	272	136		25	17	8		8	4	4	
812	OTHER M/V TRAFFIC ACCIDENT INVOLVING COLLISION W/ M/V	104	66	38		96	59	37		7	6	1		1	1	0	
813	M/V TRAFFIC ACCIDENT INVOLV COLLISION W/ OTH VEHICLE	6	5	1		5	5	0		0	0	0		1	0	1	
814	M/V TRAFFIC ACCIDENT INVOLVING COLLISION W/ PEDESTRIAN	85	50	35		77	46	31		5	3	2		3	1	2	
815	OTHER M/V TRAFFIC ACCIDENT INVOLV COLLISION ON HIGHWAY	108	80	28		100	75	25		6	4	2		2	1	1	
816	M/V TRAFF ACC DUE TO LOSS CONTROL W/O COLLISION ON HWY	18	17	1		17	16	1		0	0	0		1	1	0	
818	OTHER NON-COLLISION M/V TRAFFIC ACCIDENT	6	5	1		6	5	1		0	0	0		0	0	0	
819	M/V TRAFFIC ACCIDENT UNSPECIFIED NATURE	114	70	44		107	66	41		7	4	3		0	0	0	
820-825	MOTOR VEHICLE NONTRAFFIC ACCIDENTS	10	8	2		10	8	2		0	0	0		0	0	0	
820	NON-TRAFFIC ACCIDENT INVOLVING SNOW VEHICLE	2	2	0		2	2	0		0	0	0		0	0	0	
821	NON-TRAFFIC ACCIDENT INVOLVING OTH OFF-ROAD M/V	1	0	1		1	0	1		0	0	0		0	0	0	
822	OTH M/V NON-TRAFFIC ACC INVOLV COLLISION MOVING OBJ	3	2	1		3	2	1		0	0	0		0	0	0	
825	OTH M/V NON-TRAFFIC ACC INVOLV COLLISION OTH & UNSPECIF	4	4	0		4	4	0		0	0	0		0	0	0	
826-829	OTHER ROAD VEHICLE ACCIDENTS	3	1	2		3	1	2		0	0	0		0	0	0	
826	PEDAL CYCLE ACCIDENT	3	1	2		3	1	2		0	0	0		0	0	0	
830-838	WATER TRANSPORT ACCIDENTS	7	7	0		7	7	0		0	0	0		0	0	0	
830	ACCIDENT TO WATERCRAFT CAUSING SUBMERSION	4	4	0		4	4	0		0	0	0		0	0	0	

TABLE C-15 (CONTINUED)

1996

ICD. LIST NUMBER	CAUSE OF DEATH XVII. EXTERNAL CAUSES OF INJURY AND POISONING	TOTALS			WHITE			BLACK			OTHER		
		TOT	MALE	FEM	TOT	MALE	FEM	TOT	MALE	FEM	TOT	MALE	FEM
831	(CONTINUED) ACCIDENT TO WATERCRAFT CAUSING OTHER INJURY	1	1	0	1	1	0	0	0	0	0	0	0
832	OTH ACCIDENTAL SUBMERS/DROWN IN WATER TRANSP ACCIDENT	2	2	0	2	2	0	0	0	0	0	0	0
840-845	AIR AND SPACE TRANSPORT ACCIDENTS	11	8	3	11	8	3	0	0	0	0	0	0
840	ACCIDENT TO POWERED AIRCRAFT AT TAKEOFF OR LANDING	1	1	0	1	1	0	0	0	0	0	0	0
841	ACCIDENT TO POWERED AIRCRAFT, OTH & UNSPEC	9	6	3	9	6	3	0	0	0	0	0	0
842	ACCIDENT TO UNPOWERED AIRCRAFT	1	1	0	1	1	0	0	0	0	0	0	0
846-848	VEHICLE ACCIDENTS NOT ELSEWHERE CLASSIFIED	2	1	1	2	1	1	0	0	0	0	0	0
848	ACCIDENTS INVOLV OTHER VEHICLES NEC	2	1	1	2	1	1	0	0	0	0	0	0
850-858	ACCIDENTAL POISONING BY DRUGS AND MEDICAMENTS	27	13	14	27	13	14	0	0	0	0	0	0
850	ACC POISON BY ANALGESICS, ANTIPTYRETICS, ANTIRHEUMATICS	5	4	1	5	4	1	0	0	0	0	0	0
855	ACC POISON BY OTH DRUGS ACTING ON CNS & AUTONOM NS	2	2	0	2	2	0	0	0	0	0	0	0
056	ACCIDENTAL POISONING BY ANTIBIOTICS	1	0	1	1	0	1	0	0	0	0	0	0
058	ACCIDENTAL POISONING BY OTHER DRUGS	19	7	12	19	7	12	0	0	0	0	0	0
860-869	ACCIDENTAL POISONING BY OTHER SUBSTANCES GASES AND VAPOURS	7	6	1	6	5	1	1	1	0	0	0	0
860	ACCIDENTAL POISONING BY ALCOHOL NEC	1	0	1	1	0	1	0	0	0	0	0	0
862	ACC POISONING BY PETROLEUM PRODS & SOLVENTS NEC	1	1	0	1	1	0	0	0	0	0	0	0
868	ACC POISONING BY OTH UTILITY GAS & OTH CARBON MONOX	4	4	0	3	3	0	1	1	0	0	0	0
869	ACC POISONING BY OTHER GASES & VAPORS	1	1	0	1	1	0	0	0	0	0	0	0
878-879	SURGICAL & MEDICAL PROCEDURES AS CAUSE OF LATER COMPLICATION	32	18	14	32	18	14	0	0	0	0	0	0
878	SURG OPER CAUSE ABNORM REACT/COMPL W/O MISADVENTURE	27	14	13	27	14	13	0	0	0	0	0	0
879	OTH PROCED W/O MISADVENTURE CAUSING ABNORM REACTION	5	4	1	5	4	1	0	0	0	0	0	0
880-888	ACCIDENTAL FALLS	357	153	204	349	149	200	6	3	3	2	1	1
880	FALL ON OR FROM STAIRS OR STEPS	43	23	20	43	23	20	0	0	0	0	0	0
881	FALL ON OR FROM LADDERS OR SCAFFOLDING	5	5	0	5	5	0	0	0	0	0	0	0
882	FALL FROM OR OUT OF BUILDING OR OTHER STRUCTURE	22	15	7	21	15	6	1	0	1	0	0	0
883	FALL INTO HOLE OR OTHER OPENING IN SURFACE	4	2	2	4	2	2	0	0	0	0	0	0
884	OTHER FALL FROM ONE LEVEL TO ANOTHER	8	5	3	8	5	3	0	0	0	0	0	0
885	FALL ON SAME LEVEL FROM SLIPPING,TRIPPING,STUMBLING	11	10	1	11	10	1	0	0	0	0	0	0
887	FRACTURE, CAUSE UNSPECIFIED	195	57	138	191	54	137	2	2	0	2	1	1
888	OTHER & UNSPECIFIED FALL	69	36	33	66	35	31	3	1	2	0	0	0
890-899	ACCIDENTS CAUSED BY FIRES AND FLAMES	62	33	29	59	32	27	3	1	2	0	0	0
890	CONFLAGRATION IN PRIVATE DWELLING	51	27	24	49	26	23	2	1	1	0	0	0
892	CONFLAGRATION NOT IN BUILDING OR STRUCTURE	1	1	0	1	1	0	0	0	0	0	0	0
893	ACCIDENT CAUSED BY IGNITION OF CLOTHING	4	2	2	4	2	2	0	0	0	0	0	0
894	IGNITION OF HIGHLY INFLAMMABLE MATERIAL	1	1	0	1	1	0	0	0	0	0	0	0
895	ACCIDENT CAUSED BY CONTROLLED FIRE IN PRIV DWELLING	1	0	1	1	0	1	0	0	0	0	0	0
898	ACC CAUSED BY OTHER SPECIFIED FIRE & FLAMES	3	2	1	2	2	0	1	0	1	0	0	0
899	ACCIDENT CAUSED BY UNSPECIFIED FIRE	20	15	5	20	15	5	0	0	0	0	0	0
900-909	ACCIDENTS CAUSED BY NATURAL AND ENVIRONMENTAL FACTORS	16	12	4	16	12	4	0	0	0	0	0	0
901	EXCESSIVE COLD	1	1	0	1	1	0	0	0	0	0	0	0
906	OTH INJURY CAUSED BY ANIMALS	3	2	1	3	2	1	0	0	0	0	0	0
909	CATACLYSMIC EARTH SURFACE MOVEMENTS & ERUPTIONS												

TABLE C-15

1996

ICD. LIST NUMBER	CAUSE OF DEATH XVII. EXTERNAL CAUSES OF INJURY AND POISONING (CONTINUED)	TOTALS				WHITE				BLACK				OTHER			
		TOT	MALE	FEM		TOT	MALE	FEM		TOT	MALE	FEM		TOT	MALE	FEM	
910-915	ACCIDENTS CAUSED BY SUBMERSION SUFFOCATION & FOREIGN BODIES	140	95	45		118	75	43		12	10	2		10	10	0	
910	ACCIDENTAL DROWNING & SUBMERSION	41	37	4		27	24	3		8	7	1		6	6	0	
911	INHALATION, INGESTION OF FOOD CAUSING OBST/SUFFOC.	18	11	7		18	11	7		0	0	0		0	0	0	
912	INHALATION, INGESTION OF OTH OBJECT CAUSE OBST/SUFFOC	56	26	30		53	24	29		2	1	1		1	1	0	
913	ACCIDENTAL MECHANICAL SUFFOCATION	25	21	4		20	16	4		2	2	0		3	3	0	
916-928	OTHER ACCIDENTS	113	79	34		106	74	32		4	3	1		3	2	1	
916	STRUCK ACCIDENTALLY BY FALLING OBJECT	12	10	2		10	9	1		1	0	1		1	1	0	
919	ACCIDENTS CAUSED BY MACHINERY	4	4	0		4	4	0		0	0	0		0	0	0	
920	ACCIDENTS CAUSED BY CUTTING/PIERCING INSTRUMENTS	2	1	1		1	1	0		0	0	0		1	0	1	
921	ACCIDENT CAUSED BY EXPLOSION OF PRESSURE VESSEL	1	1	0		1	1	0		0	0	0		0	0	0	
922	ACCIDENT CAUSED BY FIREARM MISSILE	3	3	0		2	2	0		1	1	0		0	0	0	
924	ACCIDENT CAUSED BY STEAM, HOT, CAUSTIC, CORROSIVE SUBS	2	1	1		2	1	1		0	0	0		0	0	0	
925	ACCIDENT CAUSED BY ELECTRIC CURRENT	2	2	0		2	2	0		0	0	0		0	0	0	
928	OTH & UNSPEC ENVIRONMENTAL/ACCIDENTAL CAUSES	87	57	30		84	54	30		2	2	0		1	1	0	
929-929	LATE EFFECTS OF ACCIDENTAL INJURY	18	7	11		18	7	11		0	0	0		0	0	0	
929	LATE EFFECTS OF ACCIDENTAL INJURY	18	7	11		18	7	11		0	0	0		0	0	0	
950-959	SUICIDE AND SELF-INFLICTED INJURY	483	380	103		461	364	97		9	9	0		12	7	5	
950	SUICIDE & SELF-INFLC POISONING SOLID/LIQUID SUBS	68	33	35		67	33	34		0	0	0		1	0	1	
952	SUICIDE & SELF-INFLC POISONING OTHER GASES/VAPORS	33	26	7		31	25	6		0	0	0		2	1	1	
953	SUICIDE & SELF-INFLC INJURY HANGING, STRANGUL, SUFFOC	177	142	35		167	135	32		4	4	0		5	3	2	
954	SUICIDE & SELF-INFLC INJURY BY DROWNING	14	9	5		13	9	4		0	0	0		1	0	1	
955	SUICIDE & SELF-INFLC INJURY BY FIREARMS/EXPLOSIVES	134	125	9		129	120	9		4	4	0		1	1	0	
956	SUICIDE & SELF-INFLC INJURY BY CUTTING/PIERCING INST	11	10	1		11	10	1		0	0	0		0	0	0	
957	SUICIDE & SELF-INFLC INJURY BY JUMPING-HIGH PLACE	20	14	6		17	11	6		1	1	0		2	2	0	
958	SUICIDE & SELF-INFLC INJURY BY OTH & UNSPECIF MEANS	25	20	5		25	20	5		0	0	0		0	0	0	
959	LATE EFFECTS OF SELF-INFLICTED INJURY	1	1	0		1	1	0		0	0	0		0	0	0	
960-969	HOMICIDE AND INJURY PURPOSELY INFLICTED BY OTHER PERSONS	191	141	50		120	79	41		64	57	7		5	4	1	
963	ASSAULT BY HANGING AND STRANGULATION	11	5	6		10	4	6		0	0	0		0	0	0	
965	ASSAULT BY FIREARMS AND EXPLOSIVES	94	82	12		45	36	9		44	42	2		5	4	1	
966	ASSAULT BY CUTTING AND PIERCING INSTRUMENT	45	33	12		31	23	8		13	10	3		0	0	0	
967	CHILD BATTERING & OTHER MALTREATMENT	1	0	1		1	0	1		0	0	0		0	0	0	
968	ASSAULT BY OTHER & UNSPECIFIED MEANS	36	18	18		30	14	16		6	4	2		0	0	0	
969	LATE EFFECTS OF INJURY PURPOSELY INFLC BY OTH PERSON	4	3	1		3	2	1		1	1	0		0	0	0	
970-978	LEGAL INTERVENTION	1	1	0		1	1	0		0	0	0		0	0	0	
970	INJURY DUE TO LEGAL INTERVENTION BY FIREARMS	1	1	0		1	1	0		0	0	0		0	0	0	
980-989	INJURY UNDETERMINED WHETHER ACCIDENTALLY OR PURPOSELY INFLICTED	332	262	70		306	243	63		22	16	6		2	1	1	
980	POISONING BY SOLID/LIQ SUBS, UNDETERMINED INTENT	288	223	65		268	210	58		18	12	6		2	1	1	
981	POISONING BY GASES-DOMEST USE, UNDETERMINED INTENT	1	1	0		0	0	0		1	1	0		0	0	0	
982	POISONING BY OTHER GASES, UNDETERMINED INTENT	2	2	0		2	2	0		0	0	0		0	0	0	
983	HANGING, STRANGUL, SUFFOCATION, UNDETERMINED INTENT	3	3	0		3	3	0		0	0	0		0	0	0	
984	DROWNING, UNDETERMINED INTENT	15	15	0		13	13	0		0	0	0		0	0	0	
985	INJURY BY FIREARMS/EXPLOSIVES, UNDETERMINED INTENT	1	1	0		1	1	0		0	0	0		0	0	0	
986	INJ BY CUT, PIERCING INSTRUMENT, UNDETERMINED INTENT	1	1	0		1	1	0		0	0	0		0	0	0	
987	FALLING FROM HIGH PLACE, UNDETERMINED INTENT	5	3	2		4	2	2		1	1	0		0	0	0	

TABLE C-15 (CONTINUED)

1996

ICD. LIST NUMBER	CAUSE OF DEATH XVII. EXTERNAL CAUSES OF INJURY AND POISONING (CONTINUED)	T O T A L S			W H I T E			B L A C K			O T H E R		
		TOT	MALE	FEM	TOT	MALE	FEM	TOT	MALE	FEM	TOT	MALE	FEM
		14	11	3	12	9	3	2	2	2	0	0	0
988	INJURY BY OTH & UNSPECF MEANS, UNDETERMINED INTENT	2	2	0	2	2	0	0	0	0	0	0	0
989	LATE EFFECTS OF INJURY, UNDETERMINED INTENT	1	1	0	1	1	0	0	0	0	0	0	0
990-999	INJURY RESULTING FROM OPERATIONS OF WAR	1	1	0	1	1	0	0	0	0	0	0	0
999	LATE EFFECTS OF INJURY DUE TO WAR OPERATIONS	1	1	0	1	1	0	0	0	0	0	0	0
***	RESIDENT GRAND TOTALS	55187	26035	29152	52720	24722	27998	2025	1077	948	433	230	203
TOTALS INCLUDE 9 OF UNKNOWN RACE: 6 MALES AND 3 FEMALES.													

INFANT & NEONATAL DEATHS

SECTION D

INFANT AND NEONATAL DEATHS

The total number of resident infant deaths (deaths of children less than 1 year of age) decreased by 3.8% in Massachusetts from 419 in 1995 to 403 in 1996. The rate of infant deaths also decreased -- from 5.1 infant deaths per 1,000 live births in 1995 to 5.0 infant deaths per 1,000 live births in 1996. As with live births and other deaths, all Massachusetts resident infant deaths are included regardless of the state in which they occurred. Neonatal deaths (deaths of infants under 28 days of age) decreased from 298 in 1995 to 290 in 1996, a decrease of 2.7%. However, the rate of neonatal deaths remained the same in 1996 as in 1995 -- 3.6.

INFANT DEATHS BY RACE

Beginning with the publication of 1989 data, several changes occurred in the method of calculating infant mortality rates (IMRs) by race and ethnicity. These changes affect only the calculation of race/ethnic infant mortality rates; all other data presented in this publication are comparable to information from previous years. These changes are the result of new federal recommendations for analyzing birth information, including infant mortality data, and the implementation of the new Massachusetts Standard Certificate of Death in 1989.

Infants born to black non-Hispanic mothers continue to have the highest infant mortality rates (IMRs). The IMR for black non-Hispanics in 1996 was 11.4 per 1,000 live births. This represents an increase of 2.7% from 1995, and it is substantially higher (2.4 times) than the IMR for white non-Hispanic infants.

In 1996, the IMR for Hispanics was 5.1 per 1,000 live births, a 29.2% decline from the 1995 rate of 7.2. The mortality experience of infants born to Hispanic mothers is more similar to the experience of infants born to white non-Hispanic mothers than to black non-Hispanic mothers. The 1996 IMR of 5.1 for Hispanic infants is similar to the white non-Hispanic rate and 55.3% below the black non-Hispanic rate.

Asian mothers had the lowest rates of infant mortality compared to the other race/ethnicity groups. This is consistent with prior years with the exception of 1995. In 1996, the Asian IMR was 2.2 deaths per 1,000 live births. However, caution should be used when interpreting this rate since it is based on a small number (8) of deaths.

INFANT DEATHS BY CAUSE

"Certain conditions originating in the perinatal period" (medical conditions arising from approximately 28 weeks gestation to 28 days of age) represented the leading cause of death for white, black and Hispanic infants. Congenital anomalies represented the second leading cause of death among white and Hispanic infants, whereas "Symptoms, signs and ill-defined conditions" (primarily sudden infant death syndrome (SIDS)) was the second leading cause of death for black infants.

The overall leading causes of infant death were "certain conditions originating in the perinatal period" (219 deaths) and congenital anomalies (73 deaths). The number of deaths from congenital anomalies declined markedly from 97 in 1995. Other causes of infant death were: sudden infant death syndrome (SIDS, 40 deaths) and homicide (3 deaths). There were 7 more deaths from SIDS in 1996 than there were in 1995, though this still represents a substantial decrease from the number of SIDS deaths in 1994 (58) and 1993 (62). The number of homicide deaths (3) has remained constant since 1994.

SIDS was the leading cause of death in the post-neonatal period (28-365 days), while "Disorders relating to short gestation and low birthweight" was the leading cause in the neonatal period.

NEONATAL AND POST NEONATAL MORTALITY RATES

The neonatal mortality rate (infants less than 28 days old) was 3.6 deaths per 1,000 live births in 1996. This is the same rate as in 1995, although the number of neonatal deaths actually declined by eight. Among white non-Hispanic mothers, the neonatal mortality rate increased by 16.1%, from 3.1 in 1995 to 3.6 in 1996. During this same time period, the rates decreased by 27% among both black non-Hispanic and Hispanic mothers (from 8.5 in 1995 to 6.2 in 1996 among black non-Hispanic mothers, and from 4.8 to 3.5 among Hispanic mothers). Among Asians, there were half the number of neonatal deaths in 1996 as in 1995, a drop from 10 to 5, corresponding to a more than 50% drop in the neonatal mortality rates. (These rates should be interpreted cautiously since they are based on very few deaths.)

The overall post neonatal mortality rate, representing the number of deaths of infants between 28 and 365 days of age per 1,000 live births, was slightly less in 1996 than in 1995, declining from 1.5 to 1.4. The most marked change was among infants of black non-Hispanic mothers, where the post neonatal mortality rate more than doubled between 1995 and 1996, jumping from 2.6 to 5.3 deaths per 1,000 births.

There was a decline in the number of post neonatal deaths among Hispanics, from 19 to 13, corresponding to a rate decrease of 26.1%. There was also a decline in the number of post neonatal deaths among Asians, from 9 in 1995 to 3 in 1996

DEFINITIONS IMPORTANT FOR THIS SECTION INCLUDE:

INFANT DEATH

Death of a child whose age is less than one year (365 days).

NEONATAL DEATH

Death of a child whose age is less than 28 days.

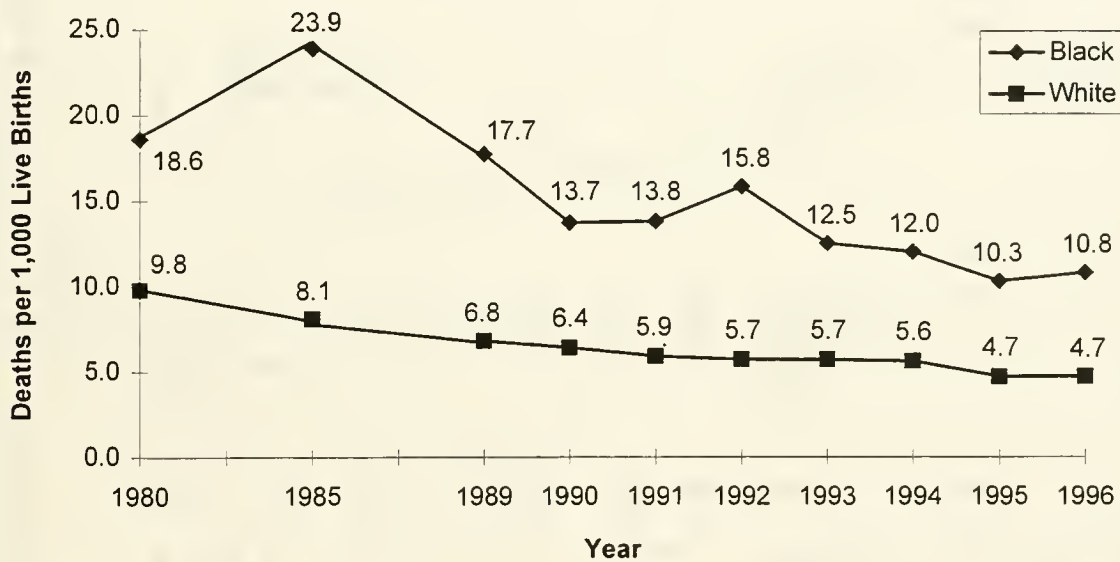
POST NEONATAL DEATH

Death of a child whose age is at least 28 days, but less than one year.

RATES IMPORTANT FOR THIS SECTION INCLUDE:

INFANT MORTALITY RATE (IMR)	$\frac{\text{\# of Resident Deaths at Less than 1 Year of Age} \times 1,000}{\text{Total Resident Live Births}}$
NEONATAL MORTALITY RATE (NMR)	$\frac{\text{\# of Resident Deaths at Less than 28 Days of Age} \times 1,000}{\text{Total Resident Live Births}}$
POST NEONATAL MORTALITY RATE (PNMR)	$\frac{\text{\# of Resident Deaths at Least 28 Days Old but <365 Days Old} \times 1,000}{\text{Total Resident Live Births}}$

**Figure D-1. Infant Mortality Rates^{1,2} by Race³
Massachusetts: 1980, 1985, 1989-1996**

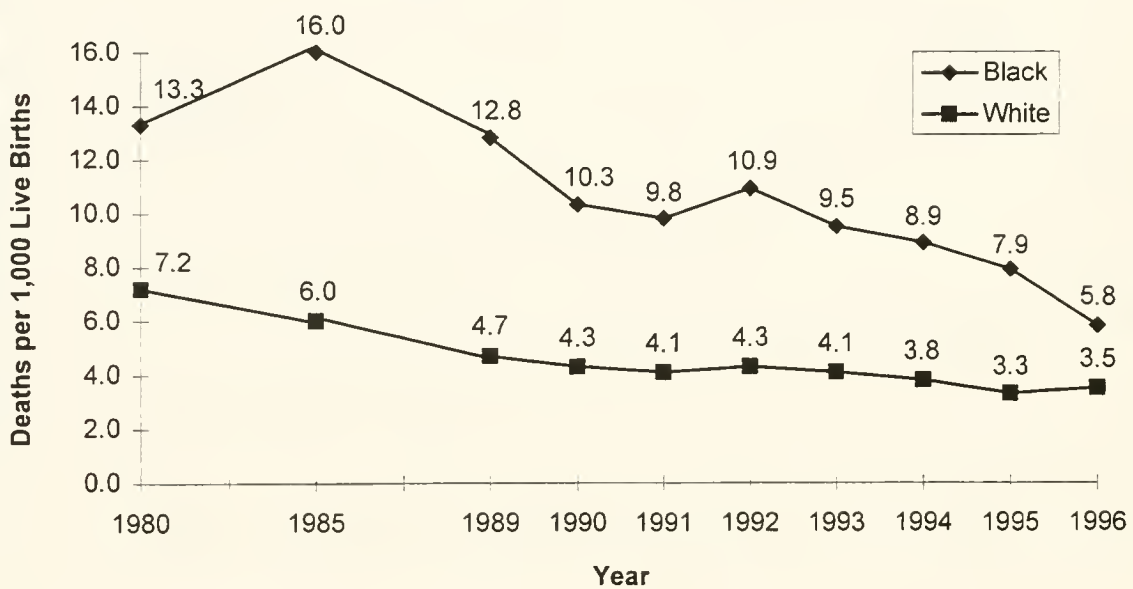


¹ Infant mortality rates are per 1,000 live births.

² Infant: A child less than one year (365 days) old.

³ For rate computations, infants of unknown race are allocated into the race categories according to the distribution of births of known race.

Figure D-2. Neonatal Mortality Rates^{1,2} by Race³
Massachusetts: 1980, 1985, 1989-1996



¹ Neonatal mortality rates are per 1,000 live births.

² Neonatal: A child less than 28 days old.

³ For rate computations, infants of unknown race are allocated into the race categories according to the distribution of births of known race.

Table D-1. Trends in Infant, Neonatal, and Post Neonatal Mortality by Race and Hispanic Ethnicity, 1989-1996

Year	INFANT ¹											
	Total ²		White non-Hispanic		Black non-Hispanic		Hispanic		Asian		Other ³	
	#	Rate ^{4,5}	#	Rate	#	Rate	#	Rate	#	Rate	#	Rate
1989	697	7.6	482	6.6	126	18.8	67	8.6	15	4.6	7	8.1
1990	649	7.0	442	6.1	98	13.7	77	9.1	24	7.0	8	9.5
1991	577	6.5	381	5.5	101	15.0	80	9.4	14	4.2	1	-- ⁶
1992	569	6.5	371	5.5	110	16.4	67	7.9	16	4.9	5	5.1
1993	523	6.2	346	5.3	84	13.1	77	9.3	13	3.9	3	-- ⁶
1994	499	6.0	343	5.3	79	12.6	64	7.6	8	2.4	5	5.3
1995	419	5.1	275	4.4	65	11.1	58	7.2	19	5.5	2	-- ⁶
1996	403	5.0	289	4.7	63	11.4	40	5.1	8	2.2	2	-- ⁶

NEONATAL⁷

Year	NEONATAL ⁷											
	Total ²		White non-Hispanic		Black non-Hispanic		Hispanic		Asian		Other ³	
	#	Rate ^{4,5}	#	Rate	#	Rate	#	Rate	#	Rate	#	Rate
1989	479	5.2	327	4.5	93	13.9	49	6.3	6	1.8	4	-- ⁶
1990	446	4.8	298	4.1	75	10.5	49	5.8	19	5.5	5	5.5
1991	401	4.5	266	3.9	72	10.7	53	6.2	10	3.0	0	0.0
1992	415	4.8	274	4.0	76	11.4	51	6.0	10	3.0	4	-- ⁶
1993	375	4.4	245	3.7	64	10.0	55	6.7	9	2.7	2	-- ⁶
1994	349	4.2	240	3.7	58	9.3	40	4.7	7	2.1	4	-- ⁶
1995	298	3.6	198	3.1	50	8.5	39	4.8	10	2.9	1	-- ⁶
1996	290	3.6	222	3.6	34	6.2	27	3.5	5	1.4	1	-- ⁶

Table D-1. (cont'd) Trends in Post Neonatal Mortality by Race and Hispanic Ethnicity, 1989-1996

Year	POST NEONATAL ⁸									
	Total ²		White non-Hispanic		Black non-Hispanic		Hispanic		Asian	
	#	Rate ^{4,5}	#	Rate	#	Rate	#	Rate	#	Rate
1989	218	2.4	155	2.1	33	4.9	18	2.3	9	2.8
1990	203	2.2	144	2.0	23	3.2	28	3.3	5	1.5
1991	176	2.0	115	1.7	29	4.3	27	3.2	4	-- ⁶
1992	154	1.8	97	1.4	34	5.1	16	1.9	6	1.8
1993	148	1.7	101	1.5	20	3.1	22	2.7	4	-- ⁶
1994	150	1.8	103	1.6	21	3.3	24	2.8	1	-- ⁶
1995	121	1.5	77	1.2	15	2.6	19	2.3	9	2.6
1996	113	1.4	67	1.1	29	5.3	13	1.7	3	-- ⁶

¹ Infant: A child less than one year (365) days old. ² Deaths of infants of unknown race are included in the total calculation. For rate computations, births of infants of unknown race are allocated into the race categories according to the distribution of births of known race. ³ Other: American Indian and Other.

⁴ Infant, neonatal, and post neonatal mortality rates are per 1,000 live births. ⁵ Within race/ethnic categories, the sum of the neonatal and post neonatal infant mortality rates may not be always equal the overall infant mortality rate due to rounding. ⁶ Calculations based on fewer than five events are excluded.

⁷ Neonatal: A child less than 28 days old. ⁸ Post Neonatal: A child whose age is at least 28 days, but less than one year.

Table D-2. Trends in Infant Deaths: Massachusetts: 1980-1996^{1,2}

Year	Total ³		White		Black		Asian/Other ⁴	
	#	Rate ⁵	#	Rate	#	Rate	#	Rate
1980	748	10.3	655	9.8	87	18.6	5	4.6
1981	710	9.6	616	9.1	85	18.2	8	6.1
1982	764	10.1	656	9.4	102	21.3	5	3.3
1983	682	9.0	579	8.3	89	19.0	12	7.4
1984	699	8.9	601	8.4	82	16.4	13	7.5
1985	745	9.1	608	8.1	126	23.8	11	6.1
1986	695	8.4	560	7.5	123	22.0	11	4.6
1987	608	7.2	486	6.4	110	17.5	12	4.5
1988	693	7.9	546	7.0	133	19.5	13	3.8
1989	697	7.6	549	6.8	131	17.7	17	4.8
1990	649	7.0	519	6.4	106	13.7	24	6.5
1991	577	6.5	461	6.0	102	13.8	14	3.9
1992	569	6.5	438	5.7	114	15.8	17	4.7
1993	523	6.2	423	5.7	87	12.5	13	3.5
1994	499	6.0	407	5.6	81	12.0	11	2.9
1995	419	5.1	333	4.7	65	10.3	21	5.5
1996	403	5.0	329	4.7	65	10.8	8	2.0

Trends in Neonatal Deaths: Massachusetts: 1980-1996^{1,2}

Year	Total ³		White		Black		Asian/Other ⁴	
	#	Rate ⁵	#	Rate	#	Rate	#	Rate
1980	550	7.6	483	7.2	62	13.3	5	4.6
1981	510	6.9	442	6.5	59	12.4	5	3.8
1982	573	7.6	494	7.1	75	15.7	3	— ⁶
1983	482	6.3	411	5.9	63	13.4	7	4.3
1984	472	6.0	411	5.8	49	9.8	8	4.6
1985	538	6.6	447	6.0	85	16.0	5	2.8
1986	478	5.8	383	5.2	89	15.9	5	2.1
1987	432	5.1	343	4.6	80	12.7	9	3.4
1988	477	5.4	383	4.9	87	12.8	6	1.8
1989	479	5.2	376	4.7	95	12.8	8	2.3
1990	446	4.8	347	4.3	80	10.3	9	5.1
1991	401	4.5	319	4.1	72	9.8	10	2.8
1992	415	4.8	325	4.3	79	10.9	11	3.1
1993	375	4.4	300	4.1	66	9.5	9	2.4
1994	349	4.2	280	3.8	60	8.9	9	2.4
1995	298	3.6	237	3.3	50	7.9	11	2.9
1996	290	3.6	249	3.5	35	5.8	5	1.2

¹ Hispanic origin could not be identified from the Massachusetts death certificate before 1989; thus, Hispanic trend data are not available. Most Hispanics are included in the race category of white. ² Neonatal: A child less than 28 days old.

³ Deaths of infants of unknown race are included in the total calculation. For rate computations, infants of unknown race are allocated into the race categories according to the distribution of births of known race. ⁴ Other: American Indian, etc. ⁵ Neonatal, and post neonatal mortality rates are per 1,000 live births. ⁶ Calculations based on fewer than five events are excluded.

Table D-2. (cont'd) Trends in Post Neonatal Deaths: Massachusetts: 1980-1996^{1,2}

Year	Total ³		White		Black		Asian/Other ⁴	
	#	Rate ⁵	#	Rate	#	Rate	#	Rate
1980	198	2.7	172	2.6	25	5.3	0	0.0
1981	200	2.7	174	2.6	26	5.8	3	-- ⁶
1982	191	2.5	162	2.3	27	5.6	2	-- ⁶
1983	200	2.7	168	2.4	26	5.6	5	3.1
1984	227	2.9	190	2.6	33	6.6	5	2.9
1985	207	2.5	161	2.1	41	7.8	6	3.3
1986	217	2.6	177	2.3	34	6.1	6	2.5
1987	176	2.1	143	1.8	30	4.8	3	-- ⁶
1988	216	2.5	163	2.1	46	6.7	7	2.0
1989	218	2.4	173	2.1	36	4.9	9	2.5
1990	203	2.2	172	2.1	26	3.4	5	1.4
1991	176	2.0	142	1.8	30	4.1	4	-- ⁶
1992	154	1.8	113	1.5	35	4.8	6	1.7
1993	148	1.7	123	1.7	21	3.0	4	-- ⁶
1994	150	1.8	127	1.7	21	3.1	2	-- ⁶
1995	121	1.5	96	1.3	15	2.4	10	2.6
1996	113	1.4	80	1.1	30	5.0	3	-- ⁶

¹ Hispanic origin could not be identified from the Massachusetts death certificate before 1989; thus, Hispanic trend data are not available. Most Hispanics are included in the race category of white. ² Post Neonatal: A child at least 28 days, but less than one year old. ³ Deaths of infants of unknown race are included in the total calculation. For rate computations, infants of unknown race are allocated into the race categories according to the distribution of births of known race. ⁴ Other: American Indian, etc. ⁵ Post neonatal mortality rates are per 1,000 live births. ⁶ Calculations based on fewer than five events are excluded.

Table D-3. Infant, Neonatal, and Post Neonatal Deaths by Cause¹, Massachusetts: 1996

Cause of Death	ICD-9 Code	Infant (<1 year)		Neonatal (<28 days)		Post Neonatal (28-365 days)	
		#	% ^{2,3}	#	%	#	%
TOTAL		403	100%	290	100%	113	100%
Infectious and parasitic diseases							
Diseases of blood and blood-forming organs	001-139	8	2.0	1	---	7	6.2
Other diseases of nervous system and sense organs	280-289	2	---	0	---	2	---
Diseases of the respiratory system	323-389	13	3.2	3	---	10	8.8
Diseases of digestive system	460-519	10	2.5	1	---	9	8.0
	520-579	1	---	1	---	0	---
Congenital anomalies							
Anencephalus and similar anomalies	740-759	73	18.1	57	19.7	16	14.2
Congenital anomalies of central nervous system and eye	740	4	---	4	---	0	---
Congenital anomalies of heart	742-743	7	---	7	---	0	---
Other congenital anomalies of circulatory system	745-746	23	---	15	---	8	---
Congenital anomalies of respiratory system	747	4	---	3	---	1	---
Congenital anomalies of genitourinary system	748	10	---	10	---	0	---
Congenital anomalies of musculoskeletal system	752-753	2	---	2	---	0	---
Chromosomal anomalies	754-756	8	---	7	---	1	---
	758	6	---	3	---	3	---
Certain conditions originating in the perinatal period							
Newborn affected by maternal conditions which may be unrelated to present pregnancy	760-779	219	54.3	211	72.8	8	7.1
Newborn affected by maternal complications of pregnancy	760	1	---	1	---	0	---
Newborn affected by complications of placenta, cord and membrane	761	19	---	19	---	0	---
Newborn affected by other complications of labor and delivery	762	15	---	15	---	0	---
Slow fetal growth and fetal malnutrition	763	0	---	0	---	0	---
Disorders relating to short gestation and unspecified low birthweight	764	1	---	1	---	0	---
Birth trauma	765	61	---	60	---	1	---
Intrauterine hypoxia and birth asphyxia	767	4	---	4	---	0	---
Respiratory distress syndrome	768	9	---	9	---	0	---
Other respiratory conditions of newborn	769	25	---	25	---	0	---
Infections specific to the perinatal period	770	27	---	23	---	4	---
Neonatal hemorrhage	771	9	---	8	---	1	---
Hemolytic disease on newborn and other perinatal jaundice	772	5	---	5	---	0	---
Other and ill-defined conditions originating in the perinatal period	773-774	2	---	2	---	0	---
	775-779	41	---	39	---	2	---
Symptoms, signs, and ill-defined conditions							
Sudden Infant Death Syndrome (SIDS)	780-799	42	10.4	1	---	41	36.3
Accidents and adverse effects	798.0	40	---	0	---	40	---
Homicide	E800-E949	3	---	0	---	3	---
	E960-E969	3	---	0	---	3	---
All other causes	Residual	29	7.2	15	5.2	14	12.4

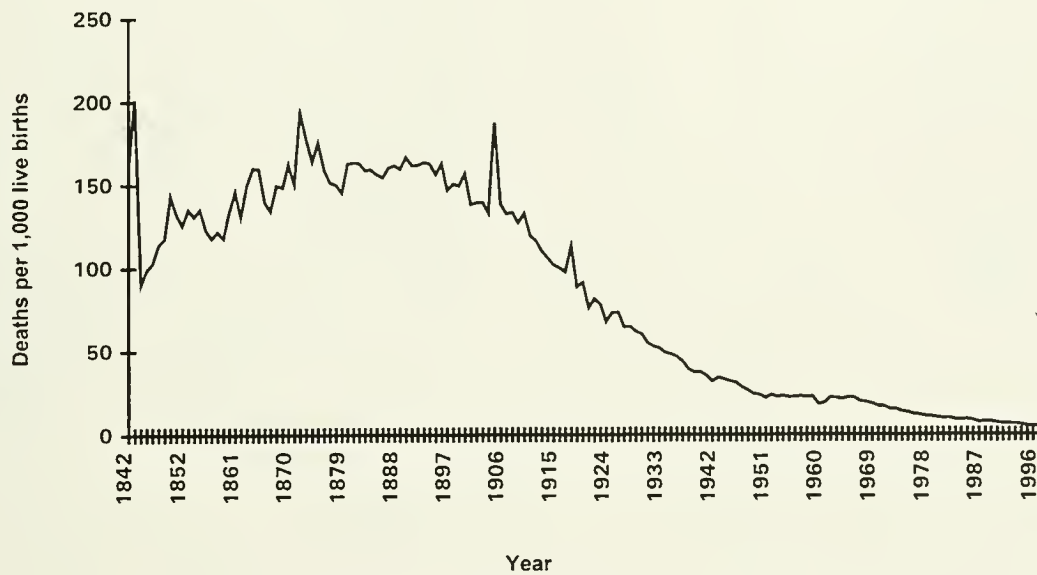
¹ The ICD-9 cause categories presented in this table were updated starting in 1994. ² Percents not calculated for subcategories ³ Calculations based on fewer than five events are excluded

**Table D-4. Infant Deaths by Major Causes, Race and Hispanic Ethnicity,
Massachusetts: 1996**

Cause of Death	ICD-9 Code	White		Black		Hispanic ¹	
		#	%	#	%	#	%
TOTAL		329	100%	65	100%	40	100%
Congenital anomalies	740-759	60	18.2	10	15.4	7	17.5
Certain conditions originating in the perinatal period	760-779	186	56.5	30	46.2	22	55.0
Symptoms, signs, and ill-defined conditions	780-799	28	8.5	13	20.0	3	-- ²
Accidents and adverse effects	E800-E949	2	--	1	--	1	--
Homicide	E960-E969	2	--	1	--	0	0.0
All other causes	Residual	51	15.5	10	15.4	7	17.5

¹ Persons of Hispanic ethnicity are also included in the race categories, consistent with the US Census population classification. ² Calculations based on fewer than five events are excluded.

Figure D-3. Infant Mortality Rates,
Massachusetts: 1842-1996¹



¹ Data not available for 1850.

MARRIAGES & DIVORCES

SECTION E

MARRIAGES AND DIVORCES

Marriages and divorces are reported by place of occurrence in Massachusetts. For example, if two Westford residents are married in Natick, this marriage will be reported by place of occurrence (Natick) rather than the residence of the couple (Westford). Marriages have traditionally been reported in this manner because of the number of couples who live in different communities. Additionally, out-of-state residents who marry in Massachusetts are included in these data.

Marriages and divorces which involve Massachusetts residents, but occur in other states, are not included in these figures. No system of interstate exchange exists for these events. Unlike some states, Massachusetts marriage and divorce laws neither encourage out-of-state residents to come to the state nor discourage residents from using the Massachusetts system by imposing long waiting periods, etc. This allows the marriage data to be used to estimate resident marriages.

In 1996, 41,234 marriages occurred in Massachusetts compared to 41,522 in 1995, a decrease of 0.7%. The rate of marriages was 6.7 per 1,000 population in 1996, a slight decrease from the rate of 6.8 in 1995. The 1996 US rate of marriages per 1,000 population was 9.0, slightly more than the 1995 US rate of 8.9. Of all brides in Massachusetts in 1996, 74.6% had never previously been married. This percentage was slightly less among the grooms--73.6%.

In 1996, 15,485 divorces were granted in Massachusetts, a decrease of 1.8% from the 15,772 divorces granted in 1995. The 1996 rate of divorce per 1,000 population in Massachusetts was 2.5, slightly lower than the 1995 divorce rate of 2.6. This rate was well below the 1996 US rate of 4.3 divorces per 1,000 population.

RATES IMPORTANT FOR THIS SECTION INCLUDE:

MARRIAGE RATE	$\frac{\text{Number of Occurrence Marriages}}{\text{Total Population}} \times 1,000$
---------------	--

DIVORCE RATE	$\frac{\text{Number of Occurrence Divorces}}{\text{Total Population}} \times 1,000$
--------------	---

Table E-1. Marriages and Divorces by County

Massachusetts Occurrence: 1996

	<u>Marriages</u>	<u>Divorces</u>
State Total	41,234	15,485
<u>Counties</u>		
Barnstable	2,225	608
Berkshire	1,016	399
Bristol	3,315	1,579
Dukes	410	58
Essex	4,957	2,035
Franklin	420	279
Hampden	2,739	1,354
Hampshire	903	390
Middlesex	8,782	3,081
Nantucket	307	27
Norfolk	3,836	1,403
Plymouth	2,935	1,427
Suffolk	4,807	788
Worcester	4,582	2,057

Figure E-1. Rates of Marriages and Divorces per 1,000 Population, Massachusetts: 1900-1996

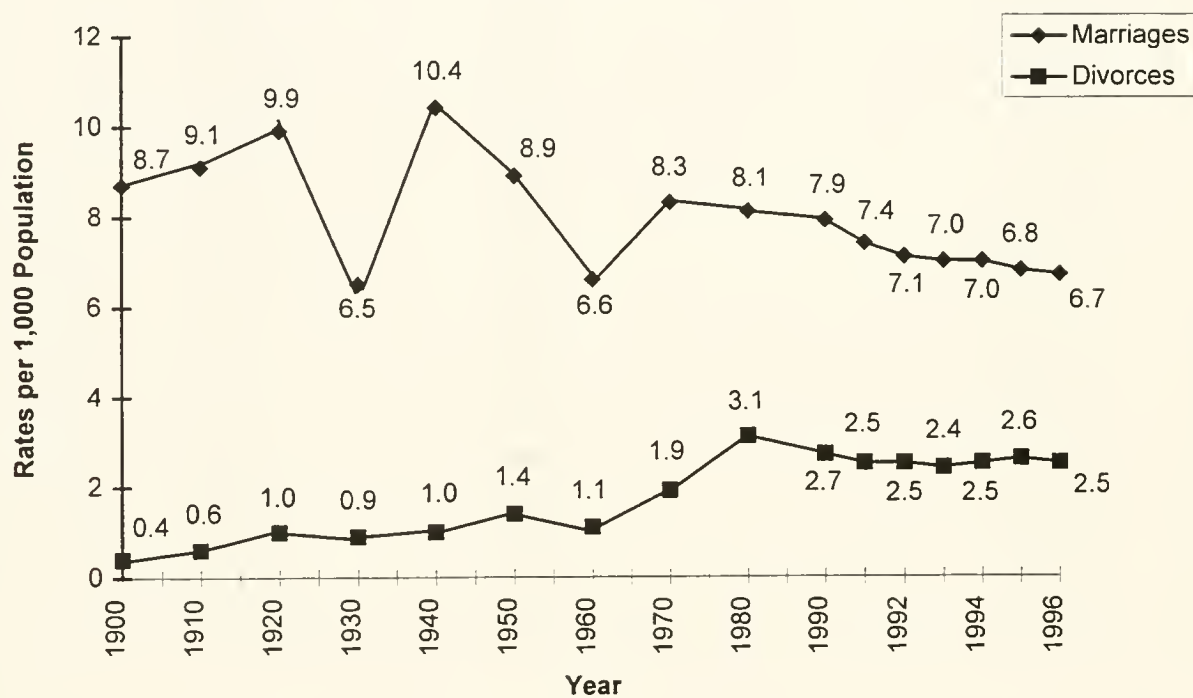


Table E-2. Marriages and Divorces and Rates Per 1,000 Population

Massachusetts Occurrence: 1900-1996

Year	<u>Marriages</u>		<u>Divorces</u>	
	Number	Rate	Number	Rate
1900	24,342	8.7	1,258	0.4
1905	27,184	9.1	1,554	0.5
1910	30,710	9.1	1,929	0.6
1915	31,301	8.5	2,252	0.6
1920	38,048	9.9	3,647	1.0
1925	31,238	7.5	3,395	0.8
1930	27,431	6.5	3,746	0.9
1935	30,019	6.9	4,081	0.9
1940	44,836	10.4	4,502	1.0
1945	38,197	8.5	6,833	1.5
1950	41,711	8.9	6,365	1.4
1955	35,585	7.3	5,601	1.2
1960	34,050	6.6	5,592	1.1
1965	38,281	7.2	7,728	1.5
1970	47,292	8.3	10,818	1.9
1975	42,103	7.3	16,460	2.8
1980	46,273	8.1	17,873	3.1
1985	49,849	8.6	21,573	3.7
1986	49,990	8.6	19,809	3.4
1987	49,034	8.4	16,994	2.9
1988	49,941	8.5	17,676	3.0
1989	49,174	8.4	16,819	2.9
1990	47,786	7.9	16,258	2.7
1991	44,621	7.4	14,987	2.5
1992	43,228	7.1	15,411	2.5
1993	42,355	7.0	14,435	2.4
1994	42,503	7.0	15,450	2.5
1995	41,522	6.8	15,772	2.6
1996	41,234	6.7	15,485	2.5

Table E-3. Marriages by Age and Marital Status

Massachusetts Occurrence: 1996

<u>Bride</u>								
Age	Total		Single		Widowed		Divorced	
	Number	% ¹	Number	%	Number	%	Number	%
Total	41,234	100.0	30,740	74.6	834	2.0	9,660	23.4
< 20	1,257	100.0	1,256	99.9	0	0.0	1	0.1
20-29	22,108	100.0	20,690	93.6	13	0.1	1,405	6.3
30-39	12,274	100.0	7,661	62.4	142	1.2	4,471	36.4
40-49	4,043	100.0	971	24.0	228	5.6	2,844	70.3
50-59	1,083	100.0	120	11.1	177	16.3	786	72.6
60-69	322	100.0	34	10.6	161	50.0	127	39.4
70+	147	100.0	8	5.4	113	76.9	26	17.7
<u>Groom</u>								
Age	Total		Single		Widowed		Divorced	
	Number	%	Number	%	Number	%	Number	%
Total	41,234	100.0	30,354	73.6	888	2.2	9,992	24.2
< 20	412	100.0	412	100.0	0	0.0	0	0.0
20-29	18,559	100.0	17,778	95.8	7	0.0	774	4.2
30-39	14,635	100.0	10,479	71.6	64	0.4	4,092	28.0
40-49	4,935	100.0	1,447	29.3	154	3.1	3,334	67.6
50-59	1,694	100.0	175	10.3	185	10.9	1,334	78.7
60-69	699	100.0	50	7.2	251	35.9	398	56.9
70+	300	100.0	13	4.3	227	75.7	60	20.0

¹ Some rows may not sum to 100.0 due to rounding.

Table E-4. Number of Marriages by Age of Bride and Age of Groom

Massachusetts Occurrence: 1996

Age of Bride	Total	Age of Groom						
		< 20	20-29	30-39	40-49	50-59	60-69	≥ 70
Total	41,234	412	18,559	14,635	4,935	1,694	699	300
< 20	1,257	241	905	101	10	0	0	0
20-29	22,108	161	15,412	6,041	461	28	3	2
30-39	12,274	10	2,105	7,468	2,346	296	41	8
40-49	4,043	0	133	955	1,906	843	189	17
50-59	1,083	0	3	68	205	489	267	51
60-69	322	0	1	1	7	35	178	100
70 +	147	0	0	1	0	3	21	122

Table E-5. Number of Marriages for Bride by Number of Marriages for Groom

Massachusetts Occurrence: 1996

Bride	Number of Marriages					
	Groom					
	Total	1	2	3	4	5 +
Total	41,234	30,355	9,112	1,587	158	22
1	30,741	26,120	4,134	458	28	1
2	8,798	3,782	4,135	795	71	15
3	1,481	411	739	280	46	5
4	175	35	90	40	9	1
5 +	39	7	14	14	4	0

POPULATION

SECTION F

POPULATION

The population data in this section are presented for use in computing rates for small areas and for reporting changes over time by municipality and county. They are based primarily on the US Federal Census for 1990.

Prior to 1985, the Massachusetts State Census method of enumeration differed from the federal census. Generally, the state figures excluded non-resident students and military families residing in the Commonwealth; they are included in the US Census definition of resident.

The Massachusetts population estimates for the years 1981-1989 (Table F-4) are calculated as linear interpolations from 1980 and 1990 US Federal Census data. The 1996 population estimate is an extrapolation of the 1990 US Federal Census and MISER estimates for 1995.

All additional interpolations and calculations have been provided by Robert A. Danley, Ph.D., and Zi Zhang, Division of Research and Epidemiology, Bureau of Health Statistics, Research and Evaluation, Massachusetts Department of Public Health.

In 1996, there were an estimated 6,163,046 residents of Massachusetts. This represents a 4.4% increase in population since 1986, when the population numbered 5,904,670. Among the total 1996 population in Massachusetts, 48.3% were male, 25.2% were below the age of 20, and 6.5% were over 75 years of age.

Figure F-1. Massachusetts Population: 1900-1996

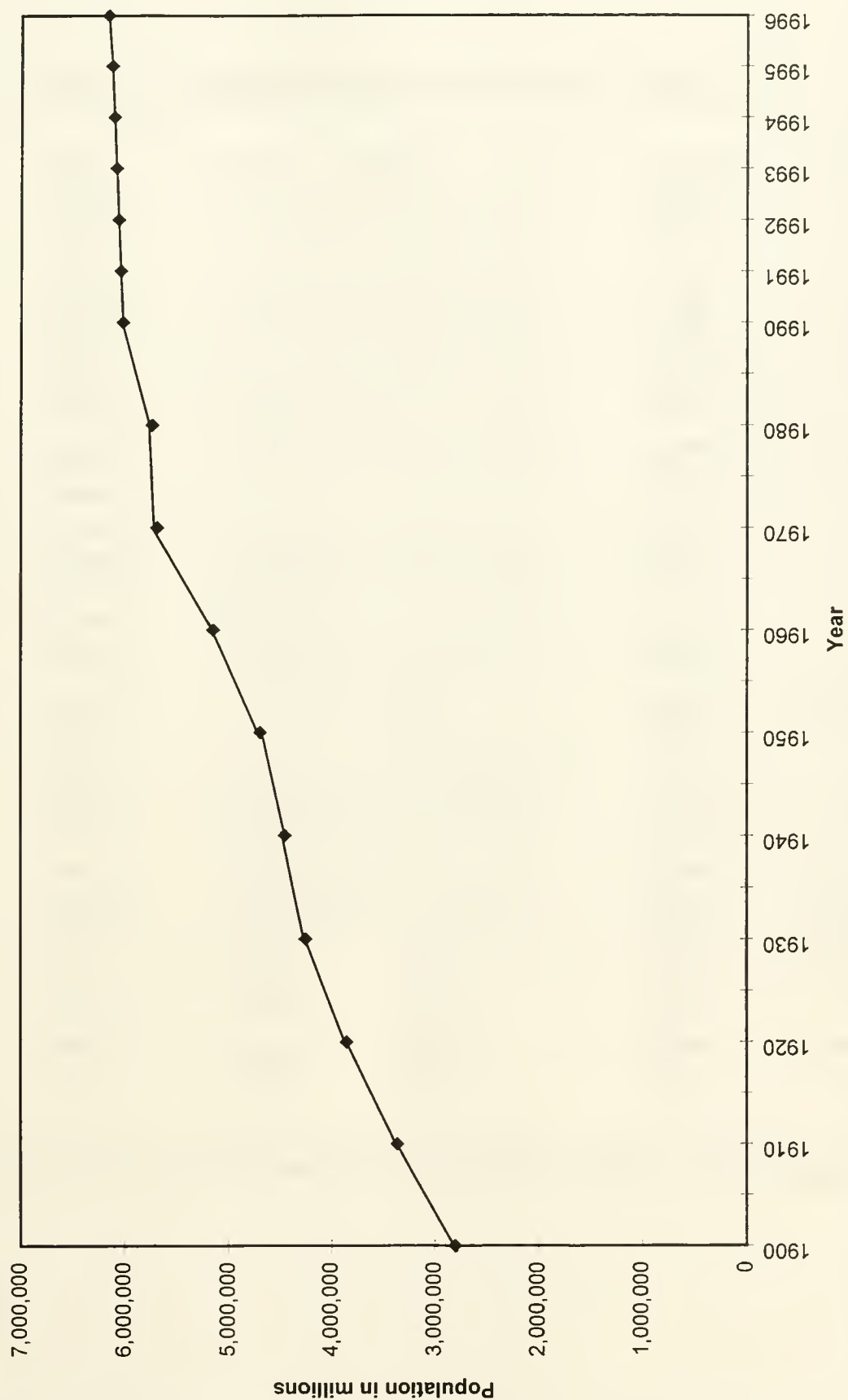


Table F-1. Population by Race, Age and Sex, Massachusetts: 1990¹

Age	Sex	Total	White	Black	Other ²
Under 1	Male	46,018	40,463	3,925	1,630
	Female	44,125	38,546	3,926	1,653
	Total	90,143	79,009	7,851	3,283
1-4	Male	169,427	149,849	13,663	5,915
	Female	161,779	142,349	13,489	5,941
	Total	331,206	292,198	27,152	11,856
5-9	Male	193,482	172,170	14,393	6,919
	Female	183,137	162,336	14,104	6,697
	Total	376,619	334,506	28,497	13,616
10-14	Male	177,899	159,257	13,226	5,416
	Female	169,117	150,743	12,916	5,458
	Total	347,016	310,000	26,142	10,874
15-19	Male	209,289	187,227	14,627	7,435
	Female	206,741	184,529	14,595	7,617
	Total	416,030	371,756	29,222	15,052
20-24	Male	256,657	231,290	16,344	9,023
	Female	260,537	234,182	17,002	9,353
	Total	517,194	465,472	33,346	18,376
25-29	Male	277,295	251,142	16,785	9,368
	Female	279,025	252,738	17,311	8,976
	Total	556,320	503,880	34,096	18,344
30-34	Male	268,701	244,766	15,346	8,589
	Female	273,629	249,299	15,867	8,463
	Total	542,330	494,065	31,213	17,052
35-39	Male	237,202	217,981	12,403	6,818
	Female	243,972	223,847	13,153	6,972
	Total	481,174	441,828	25,556	13,790
40-44	Male	211,399	196,542	9,811	5,046
	Female	221,975	206,029	10,619	5,327
	Total	433,374	402,571	20,430	10,373
45-49	Male	162,636	152,146	7,024	3,466
	Female	170,698	159,100	8,211	3,387
	Total	333,334	311,246	15,235	6,853

¹ Figures are from the 1990 US Census. ² Other races include Asian, American Indian, Hawaiian, and others not specified.

Table F-1. (continued) Population by Race, Age and Sex, Massachusetts: 1990

Age	Sex	Total	White	Black	Other
50-54	Male	126,581	118,555	5,246	2,780
	Female	136,020	127,187	6,274	2,559
	Total	262,601	245,742	11,520	5,339
55-59	Male	120,175	113,887	4,238	2,050
	Female	131,999	124,575	5,263	2,161
	Total	252,174	238,462	9,501	4,211
60-64	Male	121,609	116,299	3,762	1,548
	Female	140,296	133,558	4,844	1,894
	Total	261,905	249,857	8,606	3,442
65-69	Male	110,424	106,135	3,064	1,225
	Female	140,959	135,442	4,083	1,434
	Total	251,383	241,577	7,147	2,659
70-74	Male	85,541	82,863	1,965	713
	Female	121,790	117,883	2,973	934
	Total	207,331	200,746	4,938	1,647
75-79	Male	59,037	57,350	1,199	488
	Female	100,616	97,776	2,156	684
	Total	159,653	155,126	3,355	1,172
80-84	Male	33,468	32,561	669	238
	Female	72,831	71,105	1,338	388
	Total	106,299	103,666	2,007	626
≥ 85	Male	21,905	21,324	439	142
	Female	68,434	66,965	1,187	282
	Total	90,339	88,289	1,626	424
Total	Male	2,888,745	2,651,807	158,129	78,809
	Female	3,127,680	2,878,189	169,311	80,180
	Total	6,016,425	5,529,996	327,440	158,989

Figure F-2. 1990 Massachusetts Population by Age Group

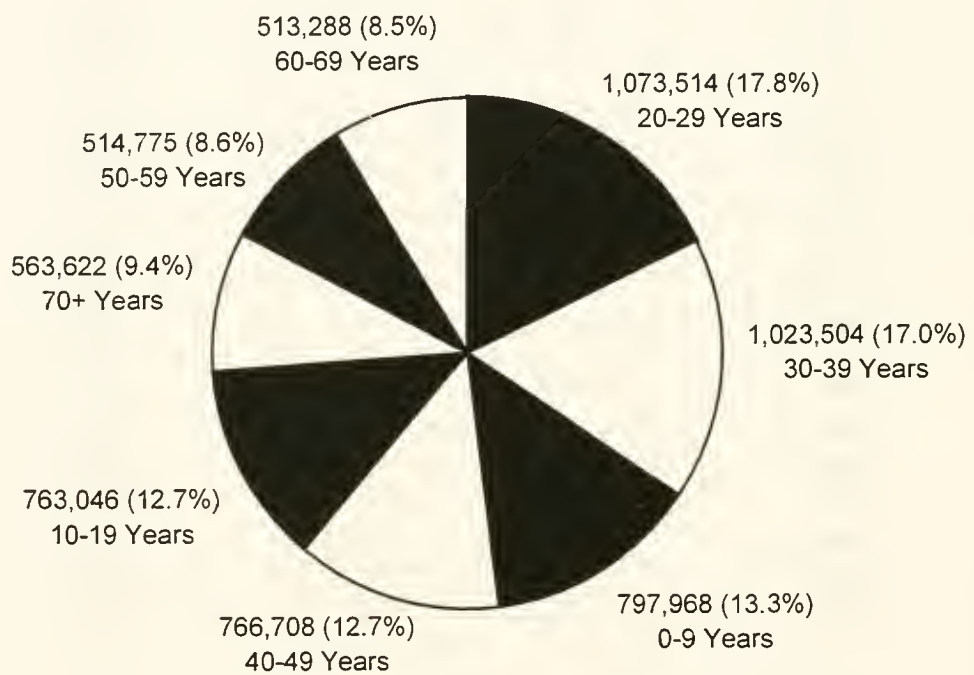
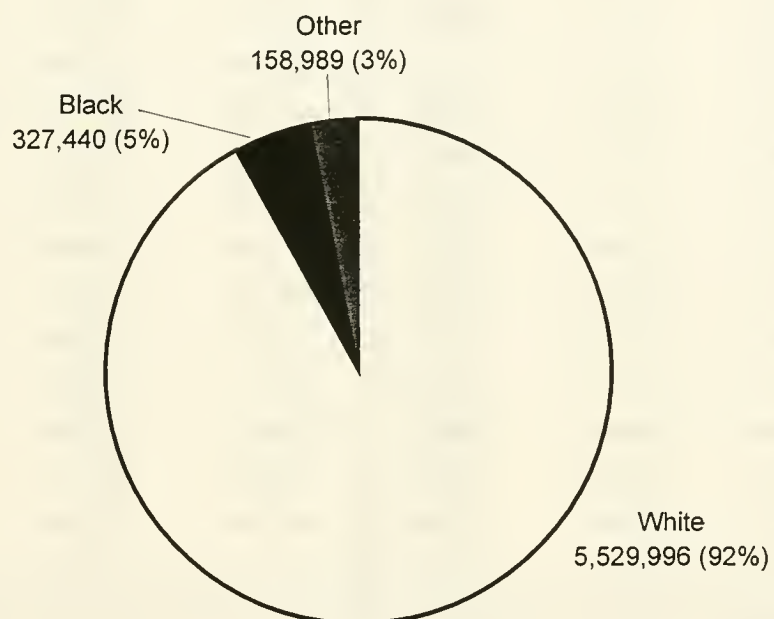


Figure F-3. 1990 Massachusetts Population by Race



¹ Other races include Asian, American Indian, Hawaiian, and others not specified.

Table F-2. Massachusetts Population by County: 1960-1990

	Federal 1960	State 1965 ¹	Federal 1970	State 1975 ²	Federal 1980	State 1985 ³	Federal 1990 ⁴
State	5,148,578	5,418,878	5,689,170	5,713,107	5,737,037	5,876,734	6,016,425
Counties							
Barnstable	70,286	83,471	96,656	122,291	147,925	167,265	186,605
Berkshire	142,135	145,769	149,402	147,256	145,110	142,231	139,352
Bristol	398,488	421,395	444,301	459,471	474,641	490,483	506,325
Dukes	5,829	5,973	6,117	7,530	8,942	10,291	11,639
Essex	568,831	603,359	637,887	635,760	633,632	651,856	670,080
Franklin	54,864	57,037	59,210	61,764	64,317	67,205	70,092
Hampden	429,353	444,202	459,050	451,034	443,018	449,664	456,310
Hampshire	103,229	113,605	123,981	131,397	138,813	142,691	146,568
Middlesex	1,238,742	1,318,005	1,397,268	1,382,151	1,367,034	1,382,751	1,398,468
Nantucket	3,559	3,667	3,774	4,431	5,087	5,550	6,012
Norfolk	510,256	557,654	605,051	605,819	606,587	611,337	616,087
Plymouth	248,449	290,882	333,314	369,376	405,437	420,357	435,276
Suffolk	791,329	763,260	735,190	692,666	650,142	657,024	663,906
Worcester	583,228	610,599	637,969	642,161	646,352	678,029	709,705

¹ 1965 State Census figures are interpolations of the 1960 and 1970 U.S. Census counts. ² 1975 State Census figures are interpolations of the 1970 and 1980 U.S. Census counts. ³ 1985 State Census figures are interpolations of the 1980 and 1990 U.S. Census counts. ⁴ Figures are from the 1990 U.S. Census.

Table F-3. Massachusetts Population by City and Town: 1980 and 1990

City/Town	1980 US Census	1990 US Census	City/Town	1980 US Census	1990 US Census
Abington	13,517	13,817	Dover	4,703	4,915
Acton	17,544	17,872	Dracut	21,249	25,594
Acushnet	8,704	9,554	Dudley	8,717	9,540
Adams	10,381	9,445	Dunstable	1,671	2,236
Agawam	26,271	27,323	Duxbury	11,807	13,895
Alford	394	418	East Bridgewater	9,945	11,104
Amesbury	13,971	14,997	East Brookfield	1,955	2,033
Amherst	33,229	35,228	East Longmeadow	12,905	13,367
Andover	26,370	29,151	Eastham	3,472	4,462
Arlington	48,219	44,630	Easthampton	15,580	15,537
Ashburnham	4,075	5,433	Easton	16,623	19,807
Ashby	2,311	2,717	Edgartown	2,204	3,062
Ashfield	1,458	1,715	Egremont	1,311	1,229
Ashland	9,165	12,066	Erving	1,326	1,372
Athol	10,634	11,451	Essex	2,998	3,260
Attleboro	34,196	38,383	Everett	37,195	35,701
Auburn	14,845	15,005	Fairhaven	15,759	16,132
Avon	5,026	4,558	Fall River	92,574	92,703
Ayer	6,993	6,871	Falmouth	23,640	27,960
Barnstable	30,898	40,949	Fitchburg	39,580	41,194
Barre	4,102	4,546	Florida	730	742
Becket	1,339	1,481	Foxborough	14,148	14,637
Bedford	13,067	12,996	Frammingham	65,113	64,989
Belchertown	8,339	10,579	Franklin	18,217	22,095
Bellingham	14,300	14,877	Freetown	7,058	8,522
Belmont	26,100	24,720	Gardner	17,900	20,125
Berkley	2,731	4,237	Gay Head	220	201
Berlin	2,215	2,293	Georgetown	5,687	6,384
Bernardston	1,750	2,048	Gill	1,259	1,583
Beverly	37,655	38,195	Gloucester	27,768	28,716
Billerica	36,727	37,609	Goshen	651	830
Blackstone	6,570	8,023	Gosnold	63	98
Blandford	1,038	1,187	Grafton	11,238	13,035
Bolton	2,530	3,134	Granby	5,380	5,565
Boston	562,994	574,283	Granville	1,204	1,403
Bourne	13,874	16,064	Great Barrington	7,405	7,725
Boxborough	3,126	3,343	Greenfield	18,436	18,666
Boxford	5,374	6,266	Groton	6,154	7,511
Boylston	3,470	3,517	Groveland	5,040	5,214
Braintree	36,337	33,836	Hadley	4,125	4,231
Brewster	5,226	8,440	Halifax	5,513	6,526
Bridgewater	17,202	21,249	Hamilton	6,960	7,280
Brimfield	2,318	3,001	Hampden	4,745	4,709
Brockton	95,172	92,788	Hancock	643	628
Brookfield	2,397	2,968	Hanover	11,358	11,912
Brookline	55,062	54,718	Hanson	8,617	9,028
Buckland	1,864	1,928	Hardwick	2,272	2,385
Burlington	23,486	23,302	Harvard	12,170	12,329
Cambridge	95,322	95,802	Harwich	8,971	10,275
Canton	18,182	18,530	Hatfield	3,045	3,184
Carlisle	3,306	4,333	Haverhill	46,865	51,418
Carver	6,988	10,590	Hawley	280	317
Charlemont	1,149	1,249	Heath	482	716
Charlton	6,719	9,576	Hingham	20,339	19,821
Chatham	6,071	6,579	Hinsdale	1,707	1,959
Chelmsford	31,174	32,383	Holbrook	11,140	11,041
Chelsea	25,431	28,710	Holden	13,336	14,628
Cheshire	3,124	3,479	Holland	1,589	2,185
Chester	1,123	1,280	Holliston	12,622	12,926
Chesterfield	1,000	1,048	Holyoke	44,678	43,704
Chicopee	55,112	56,632	Hopedale	3,905	5,666
Chilmark	489	650	Hopkinton	7,114	9,191
Clarksburg	1,871	1,745	Hubbardston	1,797	2,797
Clinton	12,771	13,222	Hudson	16,408	17,233
Cohasset	7,174	7,075	Hull	9,714	10,466
Colrain	1,552	1,757	Huntington	1,804	1,987
Concord	16,293	17,076	Ipswich	11,158	11,873
Conway	1,213	1,529	Kingston	7,362	9,045
Cummington	657	785	Lakeville	5,931	7,785
Dalton	6,797	7,155	Lancaster	6,334	6,661
Danvers	24,100	24,174	Lanesborough	3,131	3,032
Dartmouth	23,966	27,244	Lawrence	63,175	70,207
Dedham	25,298	23,782	Lee	6,247	5,849
Deerfield	4,517	5,018	Leicester	9,446	10,191
Dennis	12,360	13,864	Lenox	6,523	5,069
Dighton	5,352	5,631	Leominster	34,508	38,145
Douglas	3,730	5,438	Leverett	1,471	1,785

Table F-3. Massachusetts Population by City and Town: 1980 and 1990

City/Town	1980 US Census	1990 US Census	City/Town	1980 US Census	1990 US Census
Lexington	29,479	28,974	Pepperell	8,061	10,098
Leyden	498	662	Peru	633	779
Lincoln	7,098	7,666	Petersham	1,024	1,131
Littleton	6,970	7,051	Phillipston	953	1,485
Longmeadow	16,301	15,467	Pittsfield	51,974	48,622
Lowell	92,418	103,439	Plainfield	425	571
Ludlow	18,150	18,820	Plainville	5,857	6,871
Lunenburg	8,405	9,117	Plymouth	35,913	45,608
Lynn	78,471	81,245	Plympton	1,974	2,384
Lynnfield	11,267	11,274	Princeton	2,425	3,189
Malden	53,386	53,884	Provincetown	3,536	3,561
Manchester	5,424	5,286	Quincy	84,743	84,985
Mansfield	13,453	16,568	Randolph	28,218	30,093
Marblehead	20,126	19,971	Raynham	9,085	9,867
Marion	3,932	4,496	Reading	22,678	22,539
Marlborough	30,617	31,813	Rehoboth	7,570	8,656
Marshfield	20,916	21,531	Revere	42,423	42,786
Mashpee	3,700	7,884	Richmond	1,659	1,677
Mattapoisett	5,597	5,850	Rochester	3,205	3,921
Maynard	9,590	10,325	Rockland	15,695	16,123
Medfield	10,220	10,531	Rockport	6,345	7,482
Medford	58,076	57,407	Rowe	336	378
Medway	8,447	9,931	Rowley	3,867	4,452
Melrose	30,055	28,150	Royalston	955	1,147
Mendon	3,108	4,010	Russell	1,570	1,594
Merrimac	4,451	5,166	Rutland	4,334	4,936
Methuen	36,701	39,990	Salem	38,220	38,091
Middleborough	16,404	17,867	Salisbury	5,973	6,882
Middlefield	385	392	Sandisfield	720	667
Middleton	4,135	4,921	Sandwich	8,727	15,489
Milford	23,390	25,355	Saugus	24,746	25,549
Millbury	11,808	12,228	Savoy	644	634
Millis	6,908	7,613	Scituate	17,317	16,786
Millville	1,693	2,236	Seekonk	12,269	13,046
Milton	25,860	25,725	Sharon	13,601	15,517
Monroe	179	115	Sheffield	2,743	2,910
Monson	7,315	7,776	Shelburne	2,002	2,012
Montague	8,011	8,316	Sherborn	4,049	3,989
Monterey	818	805	Shirley	5,124	6,118
Montgomery	637	759	Shrewsbury	22,674	24,146
Mount Washington	93	135	Shutesbury	1,049	1,561
Nahant	3,947	3,828	Somerset	18,813	17,655
Nantucket	5,087	6,012	Somerville	77,372	76,210
Natick	29,461	30,510	South Hadley	16,399	16,685
Needham	27,901	27,557	Southampton	4,137	4,478
New Ashford	159	192	Southborough	6,193	6,628
New Bedford	98,478	99,922	Southbridge	16,665	17,816
New Braintree	671	881	Southwick	7,382	7,667
New Marlborough	1,160	1,240	Spencer	10,774	11,645
New Salem	688	802	Springfield	152,319	156,983
Newbury	4,529	5,623	Sterling	5,440	6,481
Newburyport	15,900	16,317	Stockbridge	2,328	2,408
Newton	83,622	82,585	Stoneham	21,424	22,203
Norfolk	6,363	9,270	Stoughton	26,710	26,777
North Adams	18,063	16,797	Stow	5,144	5,328
North Andover	20,129	22,792	Sturbridge	5,976	7,775
North Attleboro	21,095	25,038	Sudbury	14,027	14,358
North Brookfield	4,150	4,708	Sunderland	2,929	3,399
North Reading	11,455	12,002	Sutton	5,855	6,824
Northampton	29,286	29,289	Swampscott	13,837	13,650
Northborough	10,568	11,929	Swansea	15,461	15,411
Northbridge	12,246	13,371	Taunton	45,001	49,832
Northfield	2,386	2,838	Templeton	6,070	6,438
Norton	12,690	14,265	Tewksbury	24,635	27,266
Norwell	9,182	9,279	Tisbury	2,972	3,120
Norwood	29,711	28,700	Tolland	235	289
Oak Bluffs	1,984	2,804	Topsfield	5,709	5,754
Oakham	994	1,503	Townsend	7,201	8,496
Orange	6,844	7,312	Truro	1,486	1,573
Orleans	5,306	5,838	Tyngsborough	5,683	8,642
Otis	963	1,073	Tyringham	344	369
Oxford	11,680	12,588	Upton	3,886	4,677
Palmer	11,389	12,054	Uxbridge	8,374	10,415
Paxton	3,762	4,047	Wakefield	24,895	24,825
Peabody	45,976	47,039	Wales	1,177	1,566
Pelham	1,112	1,373	Walpole	18,859	20,212
Pembroke	13,487	14,544	Waltham	58,200	57,878

Table F-3. Massachusetts Population by City and Town: 1980 and 1990

City/Town	1980 US Census	1990 US Census
Ware	8,953	9,808
Wareham	18,457	19,232
Warren	3,777	4,437
Warwick	603	740
Washington	587	615
Watertown	34,384	33,284
Wayland	12,170	11,874
Webster	14,480	16,196
Wellesley	27,209	26,615
Wellfleet	2,209	2,493
Wendell	694	899
Wenham	3,897	4,212
West Boylston	6,204	6,611
West Bridgewater	6,359	6,389
West Brookfield	3,026	3,532
West Newbury	2,861	3,421
West Springfield	27,042	27,537
West Stockbridge	1,280	1,483
West Tisbury	1,010	1,704
Westborough	13,619	14,133
Westfield	36,465	38,372
Westford	13,434	16,392
Westhampton	1,137	1,327
Westminster	5,139	6,191
Weston	11,169	10,200
Westport	13,763	13,852
Westwood	13,212	12,557
Weymouth	55,601	54,063
Whately	1,341	1,375
Whitman	13,534	13,240
Wilbraham	12,053	12,635
Williamsburg	2,237	2,515
Williamstown	8,741	8,220
Wilmington	17,471	17,651
Winchendon	7,019	8,805
Winchester	20,701	20,267
Windsor	598	770
Winthrop	19,294	18,127
Woburn	36,626	35,943
Worcester	161,799	169,759
Worthington	932	1,156
Wrentham	7,580	9,006
Yarmouth	18,449	21,174
Statewide Totals	5,737,037	6,016,425

Table F-4. Population Counts and Estimates, Massachusetts: 1980-1996

AGE GROUP	YEAR	TOTAL	MALE	FEMALE
0-4	1980	337,215	173,029	164,186
	1981	345,629	177,271	168,358
	1982	354,042	181,512	172,530
	1983	362,455	185,754	176,701
	1984	370,868	189,995	180,873
	1985	379,282	194,237	185,045
	1986	387,696	198,479	189,217
	1987	396,109	202,720	193,389
	1988	404,522	206,962	197,560
	1989	412,935	211,203	201,732
	1990	421,349	215,445	205,904
	1991	414,476	211,926	202,550
	1992	407,605	208,426	199,179
	1993	400,717	204,902	195,815
	1994	393,842	201,388	192,454
	1995	386,971	197,891	189,080
	1996	400,577	205,634	194,943
5-9	1980	374,734	191,602	183,132
	1981	374,923	191,790	183,133
	1982	375,111	191,978	183,133
	1983	375,300	192,166	183,134
	1984	375,488	192,354	183,134
	1985	375,677	192,542	183,135
	1986	375,865	192,730	183,135
	1987	376,054	192,918	183,136
	1988	376,242	193,106	183,136
	1989	376,431	193,294	183,137
	1990	376,619	193,482	183,137
	1991	377,918	194,157	183,761
	1992	379,195	194,814	184,381
	1993	380,489	195,470	185,019
	1994	381,766	196,130	185,636
	1995	383,063	196,789	186,274
	1996	419,426	214,411	205,015
10-14	1980	461,332	235,669	225,663
	1981	449,900	229,892	220,008
	1982	438,469	224,115	214,354
	1983	427,037	218,338	208,699
	1984	415,606	212,561	203,045
	1985	404,174	206,784	197,390
	1986	392,742	201,007	191,735
	1987	381,311	195,230	186,081
	1988	369,879	189,453	180,426
	1989	358,448	183,676	174,772
	1990	347,016	177,899	169,117
	1991	353,412	181,166	172,246
	1992	359,812	184,427	175,385
	1993	366,212	187,702	178,510
	1994	372,612	190,963	181,649
	1995	379,008	194,244	184,764
	1996	373,589	192,051	181,538

Table F-4. Population Counts and Estimates, Massachusetts: 1980-1996

AGE GROUP	YEAR	TOTAL	MALE	FEMALE
15-19	1980	548,239	274,859	273,380
	1981	535,018	268,302	266,716
	1982	521,797	261,745	260,052
	1983	508,576	255,188	253,388
	1984	495,355	248,631	246,724
	1985	482,135	242,074	240,061
	1986	468,914	235,517	233,397
	1987	455,693	228,960	226,733
	1988	442,472	222,403	220,069
	1989	429,251	215,846	213,405
	1990	416,030	209,289	206,741
	1991	415,428	209,079	206,349
	1992	414,832	208,856	205,976
	1993	414,213	208,652	205,561
	1994	413,615	208,424	205,191
	1995	413,015	208,215	204,800
	1996	358,203	181,371	176,832
20-24	1980	552,902	270,713	282,189
	1981	549,331	269,307	280,024
	1982	545,761	267,902	277,859
	1983	542,189	266,496	275,693
	1984	538,619	265,091	273,528
	1985	535,048	263,685	271,363
	1986	531,477	262,279	269,198
	1987	527,907	260,874	267,033
	1988	524,335	259,468	264,867
	1989	520,765	258,063	262,702
	1990	517,194	256,657	260,537
	1991	504,121	250,187	253,934
	1992	491,037	243,714	247,323
	1993	477,970	237,245	240,725
	1994	464,885	230,763	234,122
	1995	451,814	224,290	227,524
	1996	417,685	209,361	208,324
25-29	1980	489,175	239,341	249,834
	1981	495,889	243,136	252,753
	1982	502,604	246,932	255,672
	1983	509,318	250,727	258,591
	1984	516,033	254,523	261,510
	1985	522,748	258,318	264,430
	1986	529,462	262,113	267,349
	1987	536,177	265,909	270,268
	1988	542,891	269,704	273,187
	1989	549,606	273,500	276,106
	1990	556,320	277,295	279,025
	1991	542,906	270,616	272,290
	1992	529,523	263,932	265,591
	1993	516,105	257,238	258,867
	1994	502,715	250,549	252,166
	1995	489,308	243,855	245,453
	1996	521,415	261,283	260,132

Table F-4. Population Counts and Estimates, Massachusetts: 1980-1996

AGE GROUP	YEAR	TOTAL	MALE	FEMALE
30-34	1980	446,395	217,649	228,746
	1981	455,988	222,754	233,234
	1982	465,582	227,859	237,723
	1983	475,176	232,965	242,211
	1984	484,769	238,070	246,699
	1985	494,363	243,175	251,188
	1986	503,956	248,280	255,676
	1987	513,549	253,385	260,164
	1988	523,143	258,491	264,652
	1989	532,737	263,596	269,141
	1990	542,330	268,701	273,629
	1991	537,086	266,041	271,045
	1992	531,846	263,383	268,463
	1993	526,615	260,732	265,883
	1994	521,377	258,059	263,318
	1995	516,132	255,417	260,715
	1996	553,658	277,222	276,436
35-39	1980	348,552	169,502	179,050
	1981	361,814	176,272	185,542
	1982	375,076	183,042	192,034
	1983	388,339	189,812	198,527
	1984	401,601	196,582	205,019
	1985	414,863	203,352	211,511
	1986	428,125	210,122	218,003
	1987	441,387	216,892	224,495
	1988	454,650	223,662	230,988
	1989	467,912	230,432	237,480
	1990	481,174	237,202	243,972
	1991	487,579	240,363	247,216
	1992	493,998	243,516	250,482
	1993	500,412	246,690	253,722
	1994	506,839	249,845	256,994
	1995	513,237	253,015	260,222
	1996	539,992	267,021	272,971
40-44	1980	278,748	134,925	143,823
	1981	294,210	142,572	151,638
	1982	309,673	150,220	159,453
	1983	325,136	157,867	167,269
	1984	340,599	165,515	175,084
	1985	356,061	173,162	182,899
	1986	371,523	180,809	190,714
	1987	386,986	188,457	198,529
	1988	402,449	196,104	206,345
	1989	417,912	203,752	214,160
	1990	433,374	211,399	221,975
	1991	443,742	216,488	227,254
	1992	454,118	221,573	232,545
	1993	464,496	226,676	237,820
	1994	474,880	231,775	243,105
	1995	485,243	236,878	248,365
	1996	476,967	234,097	242,870

Table F-4. Population Counts and Estimates, Massachusetts: 1980-1996

AGE GROUP	YEAR	TOTAL	MALE	FEMALE
45-49	1980	278,261	134,444	143,817
	1981	283,768	137,263	146,505
	1982	289,275	140,082	149,193
	1983	294,783	142,902	151,881
	1984	300,290	145,721	154,569
	1985	305,798	148,540	157,258
	1986	311,305	151,359	159,946
	1987	316,812	154,178	162,634
	1988	322,320	156,998	165,322
	1989	327,827	159,817	168,010
	1990	333,334	162,636	170,698
	1991	345,718	168,718	177,000
	1992	358,097	174,792	183,305
	1993	370,466	180,887	189,579
	1994	382,849	186,970	195,879
	1995	395,230	193,058	202,172
	1996	439,744	213,657	226,087
50-54	1980	306,574	146,211	160,363
	1981	302,177	144,248	157,929
	1982	297,779	142,285	155,494
	1983	293,382	140,322	153,060
	1984	288,985	138,359	150,626
	1985	284,588	136,396	148,192
	1986	280,190	134,433	145,757
	1987	275,793	132,470	143,323
	1988	271,396	130,507	140,889
	1989	266,998	128,544	138,454
	1990	262,601	126,581	136,020
	1991	277,035	133,625	143,410
	1992	291,457	140,648	150,809
	1993	305,890	147,680	158,210
	1994	320,312	154,723	165,589
	1995	334,748	161,763	172,985
	1996	336,677	163,543	173,134
55-59	1980	310,995	145,603	165,392
	1981	305,113	143,060	162,053
	1982	299,230	140,517	158,713
	1983	293,349	137,975	155,374
	1984	287,467	135,432	152,035
	1985	281,585	132,889	148,696
	1986	275,702	130,346	145,356
	1987	269,820	127,803	142,017
	1988	263,939	125,261	138,678
	1989	258,056	122,718	135,338
	1990	252,174	120,175	131,999
	1991	258,415	123,216	135,199
	1992	264,664	126,264	138,400
	1993	270,924	129,325	141,599
	1994	277,173	132,360	144,813
	1995	283,414	135,406	148,008
	1996	249,014	119,241	129,773

Table F-4. Population Counts and Estimates, Massachusetts: 1980-1996

AGE GROUP	YEAR	TOTAL	MALE	FEMALE
60-64	1980	277,384	126,323	151,061
	1981	275,837	125,852	149,985
	1982	274,288	125,380	148,908
	1983	272,741	124,909	147,832
	1984	271,192	124,437	146,755
	1985	269,645	123,966	145,679
	1986	268,097	123,495	144,602
	1987	266,549	123,023	143,526
	1988	265,001	122,552	142,449
	1989	263,453	122,080	141,373
	1990	261,905	121,609	140,296
	1991	259,702	120,630	139,072
	1992	257,490	119,652	137,838
	1993	255,294	118,691	136,603
	1994	253,082	117,704	135,378
	1995	250,879	116,732	134,147
	1996	224,406	105,192	119,214
65-69	1980	235,574	101,023	134,551
	1981	237,155	101,963	135,192
	1982	238,736	102,903	135,833
	1983	240,316	103,843	136,473
	1984	241,897	104,783	137,114
	1985	243,479	105,724	137,755
	1986	245,060	106,664	138,396
	1987	246,641	107,604	139,037
	1988	248,221	108,544	139,677
	1989	249,802	109,484	140,318
	1990	251,383	110,424	140,959
	1991	248,181	109,072	139,109
	1992	244,981	107,708	137,273
	1993	241,769	106,353	135,416
	1994	238,566	104,997	133,569
	1995	235,367	103,640	131,727
	1996	227,821	102,703	125,118
70-74	1980	187,041	73,235	113,806
	1981	189,070	74,466	114,604
	1982	191,099	75,696	115,403
	1983	193,128	76,927	116,201
	1984	195,157	78,157	117,000
	1985	197,186	79,388	117,798
	1986	199,215	80,619	118,596
	1987	201,244	81,849	119,395
	1988	203,273	83,080	120,193
	1989	205,302	84,310	120,992
	1990	207,331	85,541	121,790
	1991	208,014	85,869	122,145
	1992	208,703	86,208	122,495
	1993	209,396	86,535	122,861
	1994	210,085	86,874	123,211
	1995	210,767	87,205	123,562
	1996	225,504	94,648	130,856

Table F-4. Population Counts and Estimates, Massachusetts: 1980-1996

AGE GROUP	YEAR	TOTAL	MALE	FEMALE
75-79	1980	137,828	48,145	89,683
	1981	140,010	49,234	90,776
	1982	142,193	50,323	91,870
	1983	144,376	51,413	92,963
	1984	146,558	52,502	94,056
	1985	148,741	53,591	95,150
	1986	150,923	54,680	96,243
	1987	153,105	55,769	97,336
	1988	155,288	56,859	98,429
	1989	157,471	57,948	99,523
	1990	159,653	59,037	100,616
	1991	162,139	59,983	102,156
	1992	164,614	60,933	103,681
	1993	167,101	61,880	105,221
	1994	169,576	62,818	106,758
	1995	172,062	63,780	108,282
	1996	174,088	67,606	106,482
80-84	1980	92,180	28,513	63,667
	1981	93,592	29,009	64,583
	1982	95,004	29,504	65,500
	1983	96,416	30,000	66,416
	1984	97,828	30,495	67,333
	1985	99,240	30,991	68,249
	1986	100,651	31,486	69,165
	1987	102,064	31,982	70,082
	1988	103,475	32,477	70,998
	1989	104,888	32,973	71,915
	1990	106,299	33,468	72,831
	1991	108,378	34,156	74,222
	1992	110,457	34,867	75,590
	1993	112,539	35,553	76,986
	1994	114,616	36,230	78,386
	1995	116,695	36,921	79,774
	1996	122,268	40,991	81,277
≥ 85	1980	73,908	20,107	53,801
	1981	75,551	20,287	55,264
	1982	77,195	20,467	56,728
	1983	78,837	20,646	58,191
	1984	80,480	20,826	59,654
	1985	82,124	21,006	61,118
	1986	83,767	21,186	62,581
	1987	85,410	21,366	64,044
	1988	87,052	21,545	65,507
	1989	88,696	21,725	66,971
	1990	90,339	21,905	68,434
	1991	94,434	22,982	71,452
	1992	98,514	24,044	74,470
	1993	102,592	25,104	77,488
	1994	106,670	26,174	80,496
	1995	110,766	27,240	83,526
	1996	102,012	24,681	77,331

Table F-4. Population Counts and Estimates, Massachusetts: 1980-1996

AGE GROUP	YEAR	TOTAL	MALE	FEMALE
TOTAL	1980	5,737,037	2,730,893	3,006,144
	1981	5,764,975	2,746,678	3,018,297
	1982	5,792,914	2,762,462	3,030,452
	1983	5,820,854	2,778,250	3,042,604
	1984	5,848,792	2,794,034	3,054,758
	1985	5,876,737	2,809,820	3,066,917
	1986	5,904,670	2,825,604	3,079,066
	1987	5,932,611	2,841,389	3,091,222
	1988	5,960,548	2,857,176	3,103,372
	1989	5,988,490	2,872,961	3,115,529
	1990	6,016,425	2,888,745	3,127,680
	1991	6,038,684	2,898,274	3,140,410
	1992	6,060,943	2,907,757	3,153,186
	1993	6,083,200	2,917,315	3,165,885
	1994	6,105,460	2,926,746	3,178,714
	1995	6,127,719	2,936,339	3,191,380
	1996	6,163,046	2,974,713	3,188,333

APPENDICES

USE ONLY STATE APPROVED RIBBONS AND MASS. STANDARD INK
AS REQUIRED BY GEN. LAWS, CHAP. 66, SECT. 4



The Commonwealth of Massachusetts
DEPARTMENT OF PUBLIC HEALTH
REGISTRY OF VITAL RECORDS AND STATISTICS
STANDARD CERTIFICATE OF LIVE BIRTH

STATE USE ONLY

1. RECORD NUMBER	C H I L D	3C. CITY/TOWN					
1A. CERTIFICATE NUMBER (DPH USE ONLY)		3B. COUNTY					
2. FACILITY NUMBER		3A. FACILITY NAME-IF NOT IN FACILITY, NUMBER AND STREET					
		NAME	4A. FIRST	4B. MIDDLE	4C. LAST		
		5. SEX	6A. PLURALITY	6B. BIRTH ORDER	7. TIME	8. DATE OF BIRTH (Month, Day, Year)	
C E R T I F I C A T E		9A. SIGNATURE (If Certified by the DPH, was Born Alive at Date and Time and Place Stated)		9B. TYPE OR PRINT NAME		9C. LICENSE NUMBER	
		9D. NO. & STREET	9E. CITY/TOWN	9F. STATE	9G. ZIP CODE	9H. DATE SIGNED (Month, Day, Year)	
		9I. TYPE		9J. TITLE			
	M O T H E R	NAME	10A. FIRST	10B. MIDDLE	10C. LAST	10D. MAIDEN SURNAME	
		BIRTHPLACE	11A. CITY/TOWN	11B. STATE/COUNTRY		12. DATE OF BIRTH (Month, Day, Year)	
RESIDENCE (Do not use mailing address)		13A. NUMBER AND STREET	13B. CITY/TOWN	13C. COUNTY	13D. STATE	13E. ZIP CODE	
F A T H E R	NAME	14A. FIRST	14B. MIDDLE	14C. LAST			
	BIRTHPLACE	15A. CITY/TOWN	15B. STATE/COUNTRY		16. DATE OF BIRTH (Month, Day, Year)		
22A. SOCIAL SECURITY CARD		17A. I (WE) CERTIFY THAT THE PERSONAL INFORMATION APPEARING ABOVE IS TRUE AND CORRECT.				17B. RELATIONSHIP TO CHILD	
INITIALS	I N F O R M A N T	17C. DATE SIGNED (Month, Day, Year)	17D. MAILING ADDRESS (If different from item # 13 above)	NUMBER AND STREET	CITY	STATE ZIP CODE	
22B. RESIDENT COPY							
INITIALS	C L E R K	18. DATE OF RECORD (Month, Day, Year)	19. SUPPLEMENT FILED (Month, Day, Year)		20. CLERK/REGISTRAR		
1. OCCURRENCE		21. DPH USE ONLY					



The Commonwealth of Massachusetts

STANDARD CERTIFICATE OF DEATH
REGISTRY OF VITAL RECORDS AND STATISTICS

REGISTERED NUMBER

STATE USE ONLY

STATE USE ONLY
4a PLACE
4c HOSP
5 TYPE
7 VET
8 HISP RACE
9 EDUC
10 AGE
11 NATIVITY
12 MARITAL
15 RESID
15 OUT-STATE
23 DISP
31-32 AUTOP
33 MED EXAM
34 MANNER
35C WORK INJ
35F PLACE
36-37 CERT
40A RN PRO

DECEDENT

INFORMANT

DISPOSITION

CERTIFIER

DECEDENT - NAME FIRST MIDDLE LAST		SEX	DATE OF DEATH (Mo. Day Yr.)	
1		2	3	
PLACE OF DEATH (City/Town)		COUNTY OF DEATH	HOSPITAL OR OTHER INSTITUTION (Name (If not in earlier, give street and number))	
4a		4b	4c	
PLACE OF DEATH (Check only one): HOSPITAL: ☐ Inpatient ☐ ER/Outpatient ☐ DOA OTHER: ☐ Nursing Home ☐ Residence ☐ Other (Specify)		SOCIAL SECURITY NUMBER		IF US WAR VETERAN SPECIFY WAR
5		6		7
WAS DECEDENT OF HISPANIC ORIGIN? (If yes, Specify Puerto Rican, Dominican, Cuban, etc.) ☐ NO ☐ YES 8a Specify		RACE (e.g. White, Black, American Indian, etc.) (Specify) 8b		DECEDENT'S EDUCATION (Highest Grade Completed) Elem/Sec (0-12) College (1-4, 5+)
AGE - Last Birthday (Yrs.)		UNDER 1 YEAR MOS. DAYS	UNDER 1 DAY HOURS MINS	DATE OF BIRTH (Mo., Day, Yr.)
10a		b	c	10d
11		BIRTHPLACE (City and State or Foreign Country)		
MARRIED, NEVER MARRIED, WIDOWED OR DIVORCED		LAST SPOUSE (If wife, give maiden name)		USUAL OCCUPATION (Prior - If retired)
12		13		14a
RESIDENCE - NO. & ST., CITY/TOWN, COUNTY, STATE/COUNTRY		KIND OF BUSINESS OR INDUSTRY		ZIP CODE
15a		14b		15b
FATHER - FULL NAME		STATE OF BIRTH (If not in U.S., name country)		MOTHER - NAME (GIVEN) (MAIDEN)
16		18		19
INFORMANT'S NAME		LIVING ADDRESS - NO. & ST., CITY/TOWN, STATE, ZIP CODE		RELATIONSHIP
20		21		22
METHOD OF DISPOSITION ☐ BURIAL ☐ CREMATION ☐ ENTOMBMENT ☐ REMOVAL FROM STATE 23 ☐ DONATION ☐ OTH. SPEC.		FUNERAL SERVICE LICENSEE LICENSE #		
24		25		
PLACE OF DISPOSITION (Name of Cemetery, Crematory or other)		LOCATION (City/Town, State)		
26a		26b		
DATE OF DISPOSITION (Mo., Day, Yr.)		NAME AND ADDRESS OF FACILITY		
27		28a/b		
29 PART I - Enter the diseases, injuries, or complications that caused the death. Do not use only the mode of dying, such as cardiac or respiratory arrest, shock or heart failure. List only one cause on each line (a through d). PRINT OR TYPE LEGIBLY.				Approximate Interval Between Onset and Death
IMMEDIATE CAUSE (Final disease or condition resulting in death) → a				
Due to (or as a consequence of)				
b				
Due to (or as a consequence of)				
c				
Due to (or as a consequence of)				
d				
PART II - Other significant conditions contributing to death but not resulting in underlying cause given in Part I				
30				
WAS CASE REFERRED TO M.E.? (Yes or No)		34 MANNER OF DEATH ☐ NATURAL ☐ HOMICIDE ☐ ACCIDENT ☐ SUICIDE ☐ COULD NOT BE DETERMINED ☐ PENDING INVESTIGATION		31
33		35a		35b
DESCRIBE HOW INJURY OCCURRED		PLACE OF INJURY - At home, farm, street, factory, office, etc. Specify		LOCATION (No. & St., City/Town, State)
35d		35e		35f
36a To the best of my knowledge, death occurred at the time, date, and place and due to the cause(s) stated (Signature and Title)		37a On the basis of examination and/or investigation in my opinion death occurred at the time, date, and place and due to the cause(s) stated (Signature and Title)		
DATE SIGNED (Mo., Day, Yr.)		HOUR OF DEATH		DATE SIGNED (Mo., Day, Yr.)
36b		36c		37b
NAME OF ATTENDING PHYSICIAN IF NOT CERTIFIER		PRONOUNCED DEAD (Mo., Day, Yr.)		PRONOUNCED DEAD (Hr.)
36d		37c		37d
NAME AND ADDRESS OF CERTIFYING PHYSICIAN OR MEDICAL EXAMINER (Type or Print)		LICENSE NO. OF CERTIFIER		
38		39		
WAS THERE AN R.N. PRONOUNCEMENT? Yes or No		IF YES, DATE PRONOUNCED		IF YES, TIME PRONOUNCED
40a		40b		40c
DATE BURIAL PERMIT ISSUED		RECEIVED IN THE CITY/TOWN OF		DATE OF RECORD
SIGNATURE - BD. OF HEALTH AGENT		CLERK'S SIGNATURE		
41		42		43

BLACK INK ONLY

R-301-89



The Commonwealth of Massachusetts
DEPARTMENT OF PUBLIC HEALTH
REGISTRY OF VITAL RECORDS AND STATISTICS
REPORT OF FETAL DEATH

FORM R-304 1/95

DATE OF RECORD

STATE USE ONLY

FETUS	FACILITY NAME (IF NOT HOSPITAL, GIVE STREET AND NUMBER)		DATE OF DELIVERY (Month Day Year)		
	CITY/TOWN OF DELIVERY	COUNTY OF DELIVERY	TIME OF DELIVERY	PLACE OF DEATH	
MOTHER	SEX		WEIGHT	WEEKS GESTATION AT DELIVERY DATE	DIED BEFORE LABOR / DURING LABOR OR DELIVERY
	CURRENT NAME FIRST MIDDLE LAST		PLURALITY BIRTH ORDER		
FATHER	MAIDEN SURNAME		DATE OF BIRTH		CITY AND STATE/COUNTRY OF BIRTH
	RESIDENCE ADDRESS NUMBER AND STREET		CITY/TOWN	COUNTY	STATE ZIP
	CURRENT NAME FIRST MIDDLE LAST		DATE OF BIRTH CITY AND STATE/COUNTRY OF BIRTH		
CAUSE OF FETAL DEATH PART I	ENTER ONLY ONE CAUSE PER LINE FOR (a), (b), and (c)				SPECIFY FETAL OR MATERNAL
	IMMEDIATE CAUSE (a)				
	DUE TO OR AS A CONSEQUENCE OF (b)				
	DUE TO OR AS A CONSEQUENCE OF (c)				
PART II	OTHER SIGNIFICANT CONDITIONS OF THE FETUS OR THE MOTHER				
CERTIFIER	WAS THE CASE REFERRED TO A MEDICAL EXAMINER?		WAS AN AUTOPSY PERFORMED?		WERE AUTOPSY FINDINGS AVAILABLE PRIOR TO THE COMPLETION OF CAUSE OF DEATH?
	DATE OF INJURY (MATERNAL)	TIME OF INJURY	INJURY AT WORK	PLACE OF INJURY	
	DESCRIBE HOW INJURY OCCURRED		LOCATION OF INJURY		
	I HEREBY CERTIFY that this delivery occurred on the date stated and the product of conception was not a live birth.				
ATTENDANT (if different)	Signature of Certifying Physician or Medical Examiner				TITLE
	Type or Print - Name of Certifying Physician or Medical Examiner				LICENSE #
	STREET ADDRESS		CITY/TOWN	STATE	ZIP CODE
	NAME OF PHYSICIAN OR ATTENDANT/ TITLE				LICENSE #
DISPOSITION	METHOD	PLACE OF DISPOSITION (Name of Cemetery, Crematory, or other facility)			LOCATION (City or Town and State)
	FUNERAL SERVICE LICENSEE (if any)				LICENSE #
	NAME OF FACILITY (if any)				DATE OF DISPOSITION
PERMIT	DATE PERMIT ISSUED		CITY/TOWN ISSUING	ISSUED BY (signature of Health Agent):	

INSTRUCTIONS: Complete a Report of Fetal Death only for fetal deaths of twenty weeks or more gestation OR of a weight of 350 grams or more. Complete front and reverse sides of form, and send original copy to:

Registry of Vital Records and Statistics/ Natality Data Unit - FD,
470 Atlantic Avenue, 2nd Floor, Boston, MA 02210-2224

When forwarding for disposition permit: Do not send the original report to the local Board of Health. Photocopy and forward only the FRONT of this form. The original report must be sent to the Department of Public Health at the address listed above.

Mother's Name				State File Number	
Mother Transferred Into Facility?		Transferred from:		Mother's Occupation	
				Mother's Industry	
Mother's Race (Specify):		Mother's Ancestry (Specify):			
Mother's Elem/Sec Education		Grade:	Diploma:	Mother's College/University Education	Years: Degree:
Tobacco Prior:		Tobacco During:		Alcohol During:	
Marital Status			Father's Occupation		Father's Industry
Father's Race (Specify):			Father's Ancestry (Specify):		
Father's Elem/Sec Education			Grade:	Diploma:	Father's College/University Education Years: Degree:
Pregnancy History:		Prior Births Living:	Prior Births New Dead:	Date of Last Live Birth:	
Weight Gain:		Prior Terminations:		Date of Last Termination:	
Date Last Menses Began			Date of First Prenatal Visit		Number of Prenatal Visits
Site of Prenatal Care:			Type of Prenatal Practitioner		
Prenatal Tests and Procedures			Risk Factors for this Pregnancy		
Prenatal Payment Type:		Government Source:	Delivery Payment Type:		Government Source:
Name of Insurer			Name of Insurer		
Methods of Delivery			Complications of Labor and Delivery		
Clinical Estimate of Gestation in Weeks:					
Labor and Delivery Procedures			Congenital Anomalies of Fetus		
Name of Person Completing Report				Title	

Do not send this portion to the Board of Health. The original R-304, front and back, should be sent by mail (or in approved electronic format) directly to the Department of Public Health address listed on the front of this form.

DO NOT PHOTOCOPY BELOW THIS LINE

HID



The Commonwealth of Massachusetts
DEPARTMENT OF PUBLIC HEALTH
REGISTRY OF VITAL RECORDS AND STATISTICS

CERTIFICATE OF MARRIAGE

This certificate must be delivered to the person before whom the marriage is to be contracted before he proceeds to solemnize the same

(State file number)

(City or town making return)

Registered No. _____

Intention No. _____

1 Place of Marriage _____

City or Town _____ 2 Date of Marriage _____
(Do not enter name of village or section of city or town) (Month) (Day) (Year)

3 FULL NAME GROOM _____

12 FULL NAME BRIDE _____

3A SURNAME
AFTER MARRIAGE _____

12A SURNAME
AFTER MARRIAGE _____

4 DATE OF BIRTH _____

5 OCCUPATION _____

13 DATE OF BIRTH _____

14 OCCUPATION _____

6 RESIDENCE
NO. & ST. _____
CITY/
TOWN _____

7 RESIDENCE
NO. & ST. _____
CITY/
TOWN _____

15 RESIDENCE
NO. & ST. _____
CITY/
TOWN _____

16 RESIDENCE
NO. & ST. _____
CITY/
TOWN _____

7 NUMBER OF
MARRIAGE
(1st, 2nd, 3rd, etc.) _____

8 WIDOWED
OR DIVORCED _____

16 NUMBER OF
MARRIAGE
(1st, 2nd, 3rd, etc.) _____

17 WIDOWED
OR DIVORCED _____

9 BIRTHPLACE _____

18 BIRTHPLACE _____

(City or town)

(State or country)

(City or town)

(State or country)

10 MAIDEN NAME
OF MOTHER _____

19 MAIDEN NAME
OF MOTHER _____

11 NAME OF
FATHER _____

20 NAME OF
FATHER _____

21 THE INTENTION OF MARRIAGE by the above-mentioned persons was duly entered by me in the records of the Community of _____ according to law, this _____ day of _____ 19____

☐ COURT WAIVER Issued _____

(Name of Community)

by _____

☐ AGE ORDER

(Month) (Day) (Year)

by _____ City or Town Clerk or Registrar

22 I HEREBY CERTIFY that I joined the above-named persons in marriage at _____ St. _____
(If marriage was solemnized in a church, give its NAME instead of street and number)

(Name of city or town)

on _____

(Month)

(Day)

(Year)

Signature _____

Official station _____

(Print or type name)

(Minister of the Gospel, Clergyman, Priest, Rabbi, or Justice of the Peace)

Residence No. _____ St., City or Town of _____

23 Certificate recorded by city or town clerk _____

(Month) (Day) (Year)

CLERK OR REGISTRAR

THIS CERTIFICATE IS
NOT TO BE USED
OUTSIDE OF
MASSACHUSETTS.

NOT VALID AFTER:

THIS IS A PERMANENT RECORD.
Use only **permanent black ink** or approved
black typewriter ribbon. Every item of
information should be carefully supplied.
ALTERATIONS AND ERASURES IN
THIS CERTIFICATE ARE FORBIDDEN;
PENALTY FOR VIOLATION,
ONE HUNDRED DOLLARS.

4GL CHAP. 207, §§ 28, 28A, 48, 49,
4, 57 and CHAP. 46, § 18.

☐ MEDICAL
CERTIFICATES
ON FILE

☐ COMMISSION
ON FILE

The Commonwealth of Massachusetts
 DEPARTMENT OF PUBLIC HEALTH
 REGISTRY OF VITAL RECORDS AND STATISTICS
 CERTIFICATE OF ABSOLUTE
 DIVORCE OR ANNULMENT
 (Chap. 208, Sec. 46 G.L.)

R-408

HUSBAND	HUSBAND - NAME		FIRST	MIDDLE	LAST
	USUAL RESIDENCE STREET ADDRESS				CITY, TOWN OR LOCATION
	2a	2b	DATE OF BIRTH (Mo., Day, Yr.)		NUMBER OF THIS MARRIAGE (1st, 2nd, Specify)
	COUNTY	STATE			
WIFE	2c	2d	3		4
	WIFE NAME		FIRST	MIDDLE	LAST
	5a				MAIDEN NAME
	USUAL RESIDENCE STREET ADDRESS				CITY, TOWN OR LOCATION
	6a	6b	DATE OF BIRTH (Mo., Day, Yr.)		NUMBER OF THIS MARRIAGE (1st, 2nd, Specify)
	COUNTY	STATE			
	6c	6d	7		8
DATE OF THIS MARRIAGE (Mo., Day, Yr.)		NUMBER OF CHILDREN BORN ALIVE OF THIS MARRIAGE		NUMBER OF CHILDREN UNDER AGE 18 IN THIS FAMILY	
9		10a		10b	

FOR COURT USE ONLY			
COUNTY OF JUDGMENT		TITLE OF COURT	
11	12	13	14
DATE OF JUDGMENT NISI (Mo., Day, Yr.)		TYPE OF JUDGMENT - DIVORCE OR ANNULMENT (Specify)	DATE OF JUDGMENT ABSOLUTE (Mo., Day, Yr.)
15	16	17	
DOCKET NUMBER	NAME OF PLAINTIFF	CAUSE FOR WHICH GRANTED	
SIGNATURE OF CERTIFYING OFFICIAL		TITLE OF OFFICIAL	
18a		18b	

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